



***STARS***  
***Phase II Study Report***  
***Attachments***

Prepared by the STARS Technical Working Group

April 30, 2012

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# **Attachment #1**

**ABB Initial Phase II Analysis Report**

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**New York State Transmission Assessment and Reliability Study (STARS)**

**Initial Phase II Analysis Report**

**(Analysis Performed in 2010)**

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September 14, 2010

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NYTO STARS Working Group

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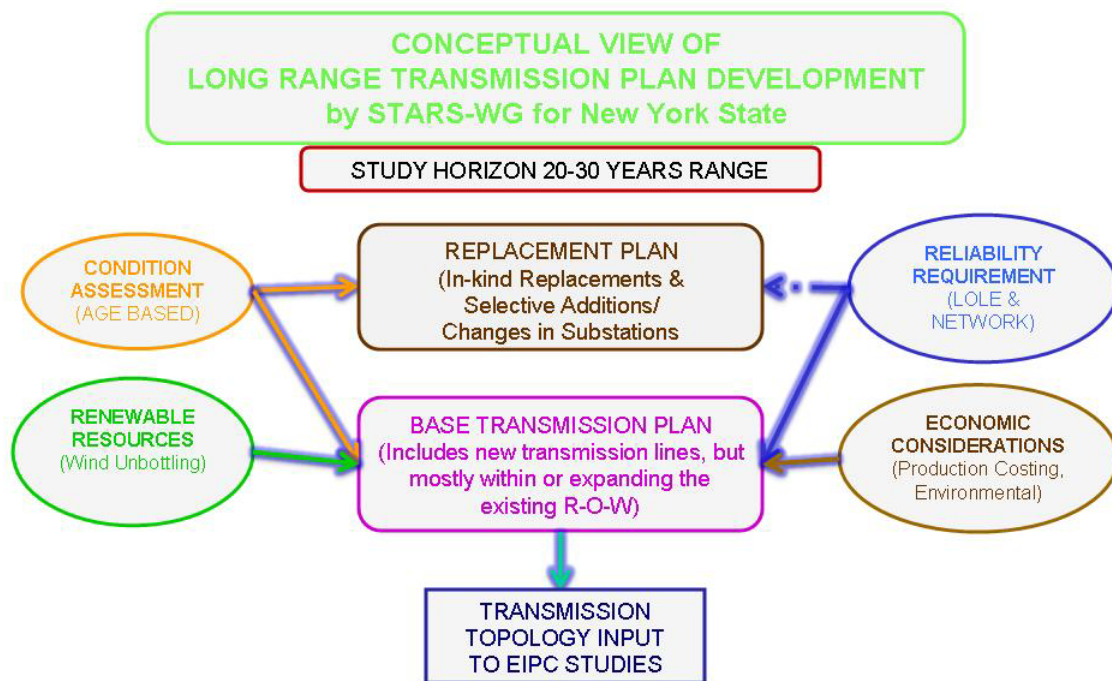
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# 1 INTRODUCTION

The New York Strategic Transmission Assessment and Reliability Study Working Group<sup>1</sup> (STARS WG) commissioned a Long Term Transmission Planning study for the New York State's electric transmission system. During this study, several issues such as reliability, aging facilities, economical alternatives, regulatory initiatives, integration of renewable resources are taken into consideration. The results from these plans and analyses are intended for developing a coordinated and well planned transmission system expansion as well as investments to be made by individual New York Transmission Owners (NYTOs) to meet the overall NYCA requirements over the next 20 to 30 years range.

A conceptual view of this Long Term Transmission Plan Development is shown here pictorially.



<sup>1</sup> Central Hudson Gas & Electric Corporation ("Central Hudson"), Consolidated Edison Company Of New York, Inc. ("Con Edison"), Long Island Power Authority ("LIPA"), National Grid ("National Grid"), New York Power Authority ("NYPA"), New York State Electric And Gas Corporation ("NYSEG"), Orange & Rockland Utilities, Inc. ("O&R") and Rochester Gas & Electric Corporation ("RGE")

As shown in the above figure, long-term transmission plans were developed based on several considerations such as System Reliability, Condition Assessment Analysis, Economic Analysis and Integration of Renewable Resources.

The subject of this initial report is Reliability Analysis which is the determination of transmission requirements from a transmission system security and reliability perspective. It should be noted that analyses pertaining to Condition Assessment, Renewable Resources and Economic Considerations were performed separately by representatives from all the participant companies and the NYISO. The findings of these other studies will be discussed in another report.

**Phase-II Study:** The Phase-I of the Reliability was completed in January 2010. The Phase-1 study results<sup>2</sup> are based on resource capacity, other assumptions and data available at the time the STARS Study started in February 2009. Since then, there have been substantial new resources proposed in the downstate as well as in the upstate zones. Several projects have either completed the interconnection process, have entered the class year 2009 or are expected by the NYISO to enter the 2010 class year studies which are scheduled to begin during spring of year 2010 and complete cost allocation by the first quarter of 2011. Acceptance of class year cost allocation suggests a project with high likelihood of realization. But, as in past class year studies, proposed projects may also drop out. This new information (over 3,000 MW of potential generation in downstate), if included in the calculation of LOLE, will result in reduction of transmission needs. The potential for such resource development (about 3,800MW) in the downstate is considered specifically as Scenario 1, but not in the other Scenarios of Phase-I of the study.

Based on the above situation and the information available (as of February 2010), the STARS Executive Committee and the STARS TWG considered that it is prudent to include the following two new generation facilities and re-compute the transmission MW needs<sup>3</sup> :

- 1) Astoria Energy II base at the same location where the retired Poletti was interconnected.
- 2) Solar Farms in Zone K.

In addition, new retirements and additions to the transmission network were also included in various Phase-II Tasks.

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<sup>2</sup> Particularly Table 9-8 is of interest here, New York State Transmission Assessment and Reliability Study (STARS) Phase 1 Study Report – “As Is” Transmission System; January 13, 2010.

<sup>3</sup> Update of Table 9-8 of Phase-I report for Scenarios 2, 3 & 4, since the additional MW needs for Scenario-1 in this table was zero.

## 2 SCENARIO UPDATE

The basis used by STARS-TWG for developing the four Scenarios (or book-end possibilities of new resources) is shown in Table 2-1 of the Phase-I Report. The new generation Capacity, including imports from external areas, for the four Scenarios by individual zones is included in Table 2-1 of the Phase-I Report. The two major recent generation additions, noted earlier, are in Zones J and K. Because, the premise for Scenario-1 was that 85% of the new generation is to be located in down-state; the two major generation projects are already included in Scenario-1 by default. Hence, it is not necessary to modify Scenario-1 generation allocation and assumptions or repeat LOLE calculations. Thus, the generation capacity additions and retirements were used to modify the three remaining Scenarios (Table 2-1) as follows:

1. Add new 550 MW generator Astoria Energy II to East 13<sup>th</sup> Street 345-kV buses (#126275 and 126274):
  - The new Astoria Energy II unit has the same characteristics (heat rate, forced outage rate, maintenance duration) as existing Astoria Energy I (at bus # 126710)
  - Add new Charles Poletti 345-kV bus #147829 and connect to buses 126275, 126274, 126667, 126668, 126669
2. Add new BP 50 MW Solar Farm to LIPA area
  - 32 MW Solar Farm to Brookhaven 69-kV bus #129790 with hourly production curve, provided by LIPA
  - 18 MW Solar Farm to Ruland Road 138 kV bus # 129361
3. Retire two generating units in Zone C:
  - 53 MW unit Greenidge 3 at bus # 131313
  - 42 MW unit Westover 7 (aka Goudey) at bus # 131104

**Table 2-1: New Generation Capacity for Scenarios #2A, #3A & #4A**

	50% OF REQRMNT		2,264		2,264						50% OF REQRMNT		2,264	2,264	
			CONVENTIONAL		LOCATIONS FOR NEW GENERATOR										
	LOAD	NEW GEN	Units	MW	Bus#	Bus Name	kV	Units	MW					CONVNTNL	
<b>SCENARIO-2A (50% UPSTATE, 50% EXTERNAL)</b>	ZONE-A	3,123	496	2	500	130754	KINTI345	345	1	250	25%	PJM	ZONES-A&C	1,132	1,132
	ZONE-B	2,365	376	2	500	135250	DUNKIRK	230	1	250					
	ZONE-C	3,323	528	2	500	149000	ROCHESTER	345	2	500	25%	HQ	ZONE-D	1,132	1,132
	ZONE-D	971	154	0	-	136150	CLAY	345	2	500					
	ZONE-E	1,600	254	1	264	147837	MASS230A	230	0	-					
	ZONE-F	2,868	456	2	500	137200	EDIC	345	1	264					
	ZONE-F	2,868	456	2	500	137455	ATHENS	345	2	500					
<b>ZONES-TOTAL</b>	<b>14,250</b>	<b>2,264</b>	<b>9</b>	<b>2,264</b>				<b>9</b>	<b>2,264</b>					<b>2,264</b>	
<b>TOTAL NEW CAPACITY</b>		<b>2,264</b>										<b>TOTAL</b>	<b>2,264</b>		
<b>SCENARIO-3A (90% ALL ZONES, 10% EXTERNAL LOW IMPORT)</b>	90% OF REQRMNT		4,075		4,075						10% OF REQRMNT		453	453	
			CONVENTIONAL		LOCATIONS FOR NEW GENERATOR										
	LOAD	NEW GEN	Units	MW	Bus#	Bus Name	kV	Units	MW					CONVNTNL	
	ZONE-A	3,123	312	1	250	130754	KINTI345	345	1	250	3.3%	ISONE	ZONES-F&G	151	151
						135250	DUNKIRK	230	0	-	3.3%	PJM	ZONE-J	151	151
	ZONE-B	2,365	236	1	250	149000	ROCHESTER	345	1	250	3.3%	HQ	ZONE-D	151	151
	ZONE-C	3,323	332	2	500	136150	CLAY	345	2	500					
	ZONE-D	971	97	0	-										
	ZONE-E	1,600	160	1	250	137200	EDIC	345	1	250					
	ZONE-F	2,868	286	1	250	137455	ATHENS	345	1	250					
	ZONE-G	2,948	294	1	250	125000	HURLEY 3	345	1	250					
	ZONE-H	782	78	0	-										
	ZONE-I	1,753	175	1	75	126292	PL VILLE	345	1	75					
	ZONE-J	14,326	1,430	6	1,500	126272	E 13TH ST	345	4	1,000					
ZONE-K	6,757	675	3	750	126304	W 49TH ST	345	2	500						
					129361	RULAND	138	2	500						
					129421	HOLLBROOK	138	1	250						
<b>ZONES-TOTAL</b>	<b>40,816</b>	<b>4,075</b>	<b>17</b>	<b>4,075</b>				<b>17</b>	<b>4,075</b>					<b>453</b>	
<b>TOTAL NEW CAPACITY</b>		<b>4,075</b>										<b>TOTAL</b>	<b>453</b>		
<b>SCENARIO-4A (25% ALL ZONES, 75% EXTERNAL HIGH IMPORTS)</b>	25% OF REQRMNT		1,132		1,132						75% OF REQRMNT		3,396		
			CONVENTIONAL		LOCATIONS FOR NEW GENERATOR										
	LOAD	NEW GEN	Units	MW	Bus#	Bus Name	kV	Units	MW					CONVNTNL	
	ZONE-A	3,123	87	1	250	130754	KINTI345	345	1	250	25%	PJM	ZONES I/J/K	1,133	1,133
	ZONE-B	2,365	66	0	-										
	ZONE-C	3,323	92	1	250	136150	CLAY	345	1	250					
	ZONE-D	971	27	0	-						50%	HQ	ZONE-D	2,267	2,267
	ZONE-E	1,600	44	0	-										
	ZONE-F	2,868	80	0	-										
	ZONE-G	2,948	82	0	-										
	ZONE-H	782	22	0	-										
	ZONE-I	1,753	49	0	-										
	ZONE-J	14,326	397	2	500	126272	E 13TH ST	345	1	250					
					126304	W 49TH ST	345	1	250						
					129361	RULAND	138	1	128						
<b>ZONES-TOTAL</b>	<b>40,816</b>	<b>1,133</b>	<b>5</b>	<b>1,128</b>				<b>5</b>	<b>1,128</b>					<b>3400</b>	
<b>TOTAL NEW CAPACITY</b>		<b>1,128</b>										<b>TOTAL</b>	<b>3,400</b>		

4. New generation capacity for Horizon year

- With 65% capacity credit, the new Solar Farms have effective capacity of 32.5 MW.
- Adding the new units and including retirements, reduced the New capacity requirement (Table 2-4 , Phase I report) from 5,015 MW to 4,528 MW ( $=5015-550-32.5+53+42$ ).

The new revised capacity requirement of 4,528 MW for the three Scenarios (#2, #3 & #4) was allocated according to the Scenario definition in Table 2-1 of Phase I report. Further, the additional generation was allocated to each zone in proportion to the zonal load. Generic 250MW units with 6% forced outage rate (FOR) are assumed for the new generation, unless only smaller amounts are indicated. The new generation units assumed for the three Scenarios are shown in Table 2-1.

The remaining Sections of this report are grouped into two parts followed by conclusions:

1. Part-I TRANSFER LIMIT CALCULATIONS
2. Part-II LOLE CALCULATIONS

## **PART I – TRANSFER LIMIT CALCULATIONS**

### 3 DEVELOPMENT OF POWER FLOW MODEL

This section summarizes the steps taken to update the power flow model of New York State Transmission System for Intermediate Year summer peak load conditions.

The power flow model used for Phase-I tasks was updated by adding the following facilities:

1. Stimulus / planned capacitor banks based on input from NYTOs.
2. Astoria Energy II generating station in the Con Edison system.
3. Upton solar farm in LIPA system.
4. Retirements identified by the NYISO.
5. Miscellaneous modeling changes identified by the NYISO and NYTOs.

Table 3-1 summarizes the capacitor bank additions. The capacitor banks were represented as switched capacitors in PSS/E and connected directly to the buses shown in the table. Additionally, National Grid indicated that there will be 300 MVAR of reactive compensation funded through the Federal stimulus program. This 300 MVAR will be on the distribution system in the Northeast region for the National Grid system and there will not be any capacitor banks connecting to the transmission system. This reactive compensation is adjusted in the load model for the power flow case by scaling down the reactive component of the Zone F load by 300 MVAR.

The 550 MW Astoria Energy II plant was added at the East 13<sup>th</sup> Street 345 kV bus (buses 126274 and 126275 in PSS/E) through a new Charles Poletti 345 kV bus. The following redispatch was assumed accommodate this generating station:

- 470 MW against the Rainey Gas Turbines (buses 126736, 126737, 126738, 126739, 126677, and 126678) and Astoria East GTs (buses 126311, 126312, 126322, 126323, 126325 and 126326).
- 80 MW against the following generators in the Con Edison system: ASTGT5 (bus 126712), ASTGT7-8 (126713), AWGT1 (126254) and AWGT2 (126255).

The two solar farms were modeled at full output by adding a 32 MW generator at the Brookhaven 69 kV bus (129790) and an 18 MW generator at the Ruland Road 138 kV bus (129361). The solar farm output was dispatched against other generators in the LIPA system. A lagging power factor of 0.988 was assumed i.e., the solar farm draws a small amount of reactive power from the grid.



The following retirements were modeled in the power flow case:

- 93 MW in Zone C Central: GOUDEY 7 (bus 131104), GRNIDG 3 (131313). This reduction in generation was offset by scaling up of other generators in Zone C.

The following miscellaneous modeling changes were applied to the case:

- Corrected the charging on the Lafayette – Lapeer 345 kV line to 0.36 pu on system base
- Added second Sugarloaf 138/69 kV transformer in Con Edison system (buses 146773 and 146809)
- Impedance of second Sugarloaf-Ramapo 138 kV line changed to  $R = 0.00043$  pu;  $X = 0.00234$  pu on system base
- Renamed Poletti Expansion Project (buses 147788 through 147790) to “NYPACC1/2”
- Renamed the in-service combined-cycle plant at buses 126673, 126692, 126710 and 126711 to Astoria Energy 1.

The case was solved with phase angle regulators, switched shunts, LTC transformers and area interchange enabled.

The above modeling changes resulted in a slight reduction in system losses. Loads in the individual NYCA zones (areas 1 through 11) were adjusted slightly such that the zonal demands (i.e., load + losses) match the corresponding summer peak 2018 values in Table I-2A of the 2008 Gold Book. Total NYCA Load + Losses = 37,130 MW. Area interchanges were not changed.

Table 3-2 lists the NYCA generation, load and losses in the updated power flow model.

**Table 3-1: Capacitor Bank Additions**

Bus #	Bus Name	kV	Owner	Banks	MVAr
130775	Big Tree	115	NYSEG	2 x 25MVAr	50
131017	Langdon	115	NYSEG	2 x 30MVAr	60
131109	Amawalk	115	NYSEG	2 x 25MVAr	50
131753	Northend	115	NYSEG	1 x 50MVAr	50
130844	Ridge Road	115	NYSEG	2 x 30MVAr	60
130862	W. Woodbourne	115	NYSEG	2 x 25MVAr	50
149141	Station 168 (Farmington) 34.5 Bus 1	34.5	RGE	1 x 12 MVAr	12
149075	Station 168 (Farmington) 34.5 Bus 2	34.5	RGE	1 x 12 MVAr	12
149026	Station 121 (Quaker)	115	RGE	1 x 75 MVAr	75
137904	Spier	115	NGRID	1 x 50 MVAr	50
137893	Mohican	115	NGRID	1 x 50 MVAr	50
137914	Warrensburg	115	NGRID	1 x 50 MVAr	50
125110	Lawrenceville	69	CHGE	1x 3 MVAr	3
125040	North Catskill	115	CHGE	1 x 12 MVAr	12
125044	Reynolds Hill	13.8	CHGE	2 x 5 MVAr	10
125057	West Balmville	13.8	CHGE	2 x 5 MVAr	10
147935	Saranac	115	NYPA	1 x 3.2 MVAr	3.2

**Table 3-2: STARS Phase II Intermediate Year Power Flow Case**  
(Case sum18tr2-gb-bal-rev30-abb-ph2-v3)

ZONES	DESCRIPTION	GENERATION MW	DEMAND (MW)			2008 GB DEMAND (MW)
			LOAD	LOSSES	LOAD+LOSSES	
A	WEST	4807.6	2796.0	79.0	2875.0	2875.0
B	GENESSEE	738.3	2062.9	76.1	2139.0	2139.0
C	CENTRAL	6151.8	2907.2	183.0	3090.2	3090.0
D	NORTH	1183.9	874.7	20.3	895.0	895.0
E	MOHAWK VAL.	730.4	1298.3	187.7	1486.0	1486.0
F	CAPITAL	4055.1	2461.8	104.2	2566.0	2566.0
G	HUDSON VAL.	2617.8	2499.7	127.3	2627.0	2627.0
H	MILLWOOD	2123.1	656.2	50.8	707.0	707.0
I	DUNWOODIE	3.0	1595.2	50.0	1645.2	1645.0
J	NYC	7578.5	12935.7	149.8	13085.5	13085.0
K	LI	4599.1	5934.9	80.1	6015.0	6015.0
<b>NYCA TOTALS</b>		<b>34588.6</b>	<b>36022.6</b>	<b>1108.3</b>	<b>37130.9</b>	<b>37130.0</b>

## 4 SECURITY ANALYSIS FOR INTERMEDIATE YEAR

This section presents results obtained from steady-state analysis of the New York State Transmission System for Summer Peak load conditions in the Intermediate Study Year. System performance is evaluated under all-lines in and contingency case conditions and checked against New York State Reliability Criteria.

### 4.1 Methodology

Power flow analysis was performed on the Phase 2 intermediate year summer peak power flow case described in the earlier Section of this report. The analysis was performed using the AC Contingency Analysis tool in the PSS<sup>TM</sup>MUST program.

For the purposes of this analysis, transmission facilities rated 100 kV and above within NYCA (and tie-lines out of NYCA) were monitored.

For thermal overloads, each branch element (transformer, transmission line, or feeder in the monitored system) was monitored and electrical flows above the applicable branch rating (normal continuous rating - Rate A) under system intact conditions, LTE rating - Rate B) under contingency conditions for overhead transmission lines and STE rating (Rate C) for underground feeders) were flagged. Transmission interfaces were not monitored (thermal transfer limits for interfaces will be determined and presented separately in Section 5).

For bus voltage violations, the following range limits and pre-to-post-contingency voltage change criteria were applied:

- 0.95-1.05 pu for system intact conditions
- 0.90-1.10 pu for contingency conditions (0.95-1.05 pu in the Con Edison system)
- Voltage change criteria of 0.10 pu

In addition, several 230 kV and 345 kV buses identified by NYISO for special range limits were checked for voltage violations.

Phase angle regulators (PARs), switched shunts and LTC transformers are modeled as regulating pre-contingency and non-regulating post-contingency.

The following types of contingencies were simulated based on the contingency files provided by NYISO:

1. Outage of branches connected between buses with a base voltage of 100 kV and above (these included outages based on “automatic” N-1 contingency specification<sup>4</sup> in MUST and specific pre-defined branch outages)

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<sup>4</sup> Automatic N-1 contingencies were not simulated in the Con Edison system.

2. Generation contingencies
3. Series element contingencies
4. Bus contingencies
5. HVdc contingencies

No stuck-breaker or tower contingencies were simulated.

In addition to these contingencies, other contingencies provided by National Grid associated with wind generation in the North Country were simulated

Appendix A shows the relevant subsystem description, monitored element and contingency description files used in this analysis (these files are the same as those used in Phase 1 of the STARS study).

Note: Some transmission facilities were excluded from monitoring based on input provided by NYCA transmission owners. Also, the transmission owners indicated that some of the automatic N-1 contingencies are not legitimate – these contingencies were excluded from analysis. See Appendix A.4 for a list of excluded monitored elements and contingencies.

## **4.2 Results**

### **4.2.1 System Intact Conditions**

Table 4-1 shows the overloaded transmission facilities for system intact condition. These violations were submitted to the transmission owners for review and following comments were received.

#### National Grid System:

National Grid provided the following comments:

- Overloads on Malone and Nicholville transformer banks can be mitigated by adding the Akwesanse 115/34.5 kV substation.
- The overloads on the Lawrence Ave 115/13.2 kV transformer banks need to be changed as follows: 22.4 MVA (Normal) and 27.7 MVA (LTE). This will mitigate the overloads.
- The overload on the Little River 115/23 kV transformer can be mitigated by changing the transformer ratings as follows: 12.1 MVA (normal) and 13 MVA (LTE).

The overload on the 115/11.5 kV transformer at Station 42 in the Rochester Gas & Electric System was also observed in Phase 1 of the study.

Table 4-2 lists system intact voltage violations. National Grid indicated that the overvoltage violations in Area 1 [*Areas 1 through 11 in the PSS/E power flow model correspond to Zones A through K in the Reliability Model*] are a consequence of high generation patterns in the southwest area. The overvoltages can be mitigated by generation redispatch. Similarly, it is anticipated that the overvoltages in Areas 2 and 3 can be mitigated through redispatch.

#### **4.2.2 Contingency Case Conditions**

Results of the contingency analysis showed several thermal and voltage violations. These are listed in Tables 4-3 and 4-4 and are described below.

Table 4-3 shows the overloaded transmission facilities. These violations were submitted to the transmission owners for review and comment.

##### NYSEG / RGE Systems:

NYSEG indicated that the overloads in the NYSEG and RGE systems are on underlying systems and that these facilities should be ignored when analyzing bulk power system limits. NYSEG requested that these facilities continue to be monitored for potential problems when wind generation is increased in the base case.

##### Long Island Power Authority System:

Each of the 345/138 kV New Bridge Road transformers becomes overloaded for loss of the parallel bank (15% overload based on the 585 MVA LTE rating). These transformers have a short-term capability of 801 MVA and the overloads can be mitigated by redispatching resources within the system. Also, a post-contingency overload of 3% was observed on the Brookhaven-Riverhead 138 kV line following the loss of the Shoreham-Wildwood 138 kV line.

##### National Grid System:

Several post-contingency overloads were observed in the National Grid system. National Grid indicated that most of these overloads are dispatch dependent and may be addressed by generation reduction. Specific National Grid comments are summarized below:

- The overloads on the Geres Lock-Solvay Tap and Menands-St. Campus 115 kV lines can be mitigated by upgrading the affected facilities with 795 A CSR conductors.
- The post-contingency overloads on the Leeds-Pleasant Valley 345 kV and Athens-Pleasant Valley 345 kV lines are dependent on dispatch and expected to decrease if Athens Generation is reduced. At present, there is a temporary SPS

in place for the contingencies that cause the overloads. Long-term solutions are being considered for resolving these overload problems.

- The overload on the Allens F – Colton 115 kV line is due to increase in the load and it will be necessary to re-conductor with 795 ACSR conductor to mitigate this violation. The structures on this line will have to be replaced to support the 795 ACSR conductor. This recommendation along with the support of the Akwesasne 115 kV substation will fix this issue.
- The following 115 kV lines can be re-conducted with 1113 ACSR. This together with long term solutions for Leed-Pleasant Valley 345 kV overload problem will mitigate the 115kV line overloads in Hudson Valley area.

137507 BOC 2T	115	137510 JMC2+9TP	115	1
125040 N.CAT. 1	115	137507 BOC 2T	115	2
137481 JMC1+7TP	115	137490 BLUECIRC	115	1

Table 4-4 lists post-contingency voltage violations. These violations were submitted to the transmission owners for review. The following comments were received.

National Grid System:

National Grid indicated that the majority of the post contingency voltage violations are on the local 115 kV system due to high generation in the southwest area and certain 115kV line outages.

In the southwest area there are low voltage concerns due to certain 115 kV line outages. National Grid is currently developing a plan to mitigate this issue in the southwest. It involves interconnecting a new 345/115 kV substation to the Stolle Rd - Homer City 345 kV line. This transmission plan should be reviewed again when long term solutions are developed.

New York Power Authority:

New York Power Authority indicated that the following voltage violation should be ignored:

- PMLD 3 for the loss of PMLD 1 is a local issue.

**4.3 Summary**

The results presented in this section showed several security violations (thermal and voltage). It should be noted that these violations are for a typical generation dispatch i.e., for a snapshot of system conditions at a given instant in time – it may be possible to mitigate the violations through a combination of generation redispatch and transmission upgrades. Transmission solutions to mitigate these constraints will be developed as part of long term plan.

**Table 4-1: System Intact Overloads - 2018 Summer Peak Conditions - Phase II**

**	From bus	**	**	To bus	**	CKT	Owner	Normal Rating	MVA Flow	Loading%
136791	NICHOLVL	115	136926	NICHOLVI	34.5	1	NGRID	13.8	<b>17.8</b>	<b>129.3</b>
136783	MALONE	115	136918	MALONE 3	34.5	2	NGRID	11.9	<b>13.9</b>	<b>117.2</b>
136779	LTl RV-F	115	137043	LITTLE R	23.0	1	NGRID	11.0	<b>11.7</b>	<b>106.6</b>
136783	MALONE	115	136918	MALONE 3	34.5	1	NGRID	10.5	<b>10.8</b>	<b>103.0</b>
136781	LWRNCE-A	115	137153	LAWRENCE	13.2	1	NGRID	10.0	<b>10.0</b>	100.0
149033	S42 115	115	149181	STA42 B	11.5	4	RGE	29.7	<b>34.5</b>	<b>116.1</b>

**Table 4-2: System Intact Voltage Violations - 2018 Summer Peak Conditions - Phase II**

Bus #	Bus Name	kV	Area	Zone	System Intact Volt
135273	DUNKIRK1	115.0	1	145	<b>1.0615</b>
135266	BRIGHAM1	115.0	1	145	<b>1.0583</b>
135264	BNNT-142	115.0	1	145	<b>1.0578</b>
135257	SPECMETL	115.0	1	145	<b>1.0578</b>
135293	LUDLUM61	115.0	1	145	<b>1.0574</b>
135283	LUDLUM62	115.0	1	145	<b>1.0573</b>
135265	BNNT-162	115.0	1	145	<b>1.0556</b>
135263	BERRY RD	115.0	1	145	<b>1.0549</b>
135275	EDNK-162	115.0	1	145	<b>1.0546</b>
135274	EDNK-161	115.0	1	145	<b>1.0538</b>
149024	GINNA115	115.0	2	153	<b>1.0522</b>
149001	PANNELL3	345.0	2	153	<b>1.0414</b>
130871	CANADIAC	115.0	3	150	<b>1.1221</b>
130872	CANADIAS	115.0	3	150	<b>1.1213</b>
130827	MILKN115	115.0	3	150	<b>1.0568</b>



Table 4-3: Post Contingency Overloads - 2018 Summer Peak Conditions - Phase II

**	From bus	** **	To bus	** CRT	Owner	Base Case MVA Flow	LTE Rating	Post Cont MVA Flow	Post Cont Loadings	Contingency
125020	DANSKAMA	115	125021 DC CBLTP	115 1	CENT HUD	170.1	199.0	322.9	162.3	125015 AC CBLTP 115 125020 DANSKAMA 115 1
125020	DANSKAMA	115	125021 DC CBLTP	115 1	CENT HUD	170.1	199.0	322.9	162.3	125015 AC CBLTP 115 125041 N.CHELSE 115 1
125015	AC CBLTP	115	125041 N.CHELSE	115 1	CENT HUD	165.1	211.0	322.3	152.7	125020 DANSKAMA 115 125021 DC CBLTP 115 1
125015	AC CBLTP	115	125041 N.CHELSE	115 1	CENT HUD	165.1	211.0	322.3	152.7	125021 DC CBLTP 115 125041 N.CHELSE 115 1
125015	AC CBLTP	115	125020 DANSKAMA	115 1	CENT HUD	165.0	211.0	322.2	152.7	125020 DANSKAMA 115 125021 DC CBLTP 115 1
125015	AC CBLTP	115	125020 DANSKAMA	115 1	CENT HUD	165.0	211.0	322.3	152.7	125021 DC CBLTP 115 125041 N.CHELSE 115 1
125021	DC CBLTP	115	125041 N.CHELSE	115 1	CENT HUD	170.1	253.0	322.9	127.6	125015 AC CBLTP 115 125020 DANSKAMA 115 1
125021	DC CBLTP	115	125041 N.CHELSE	115 1	CENT HUD	170.1	253.0	323.0	127.6	125015 AC CBLTP 115 125041 N.CHELSE 115 1
125020	DANSKAMA	115	125021 DC CBLTP	115 1	CENT HUD	170.1	199.0	221.3	111.2	125002 ROSETON 345 126281 FISHKILL 345 1
125015	AC CBLTP	115	125041 N.CHELSE	115 1	CENT HUD	165.1	211.0	214.8	101.8	125002 ROSETON 345 126281 FISHKILL 345 1
125015	AC CBLTP	115	125020 DANSKAMA	115 1	CENT HUD	165.0	211.0	214.8	101.8	125002 ROSETON 345 126281 FISHKILL 345 1
128847	NWBERG	345	129310 NEWBERG	138 2	LIPA	333.9	585.0	677.3	115.8	128847 NWBERG 345 129310 NEWBERG 138 1
128847	NWBERG	345	129310 NEWBERG	138 1	LIPA	333.9	585.0	677.3	115.8	128847 NWBERG 345 129310 NEWBERG 138 2
129488	EDWRDSAV	138	129493 RVRHD	138 1	LIPA	132.9	297.0	303.8	102.3	129459 SHOREHAM 138 129475 WILDWOOD 138 1
136200	GERES LK	115	136269 SOLVTAP2	115 1	NGRID	103.5	120.9	145.3	120.2	136200 GERES LK 115 136270 CRUC TAP 115 1
137507	BOC 2T	115	137510 JMCI+9TP	115 1	NGRID	106.3	120.0	141.0	117.5	125000 HURLEY 3 345 125030 HURLEY 1 115 1
125040	N.CAT. 1	115	137507 BOC 2T	115 2	NGRID	106.3	120.0	141.0	117.5	125000 HURLEY 3 345 125030 HURLEY 1 115 1
126294	PLTVLLEY	345	137451 LEEDS 3	345 2	NGRID	1247.3	1538.0	1790.9	116.4	126294 PLTVLLEY 345 137455 ATHENS 345 1
126294	PLTVLLEY	345	137455 ATHENS	345 1	NGRID	1207.7	1538.0	1753.5	114.0	126294 PLTVLLEY 345 137451 LEEDS 3 345 2
137507	BOC 2T	115	137510 JMCI+9TP	115 1	NGRID	106.3	120.0	136.2	113.5	125000 HURLEY 3 345 137451 LEEDS 3 345 1
125040	N.CAT. 1	115	137507 BOC 2T	115 2	NGRID	106.3	120.0	136.2	113.5	125000 HURLEY 3 345 137451 LEEDS 3 345 1
137515	MENANDS	115	137542 ST CAMPS	115 1	NGRID	30.1	114.0	120.2	105.4	137518 NW KRML 115 137716 ALB1 115 1
136751	ALLENS F	115	136764 COLTON	115 1	NGRID	42.4	128.0	133.1	104.0	136783 MALONE 115 147856 WILL 115 115 1
137481	JMCI+7TP	115	137490 BLUECIRC	115 1	NGRID	108.3	120.0	122.1	101.7	126294 PLTVLLEY 345 137451 LEEDS 3 345 2
137481	JMCI+7TP	115	137490 BLUECIRC	115 1	NGRID	108.3	120.0	121.3	101.1	126294 PLTVLLEY 345 137455 ATHENS 345 1
126294	PLTVLLEY	345	137451 LEEDS 3	345 2	NGRID	1247.3	1538.0	1546.8	100.6	125000 HURLEY 3 345 137451 LEEDS 3 345 1
137481	JMCI+7TP	115	137490 BLUECIRC	115 1	NGRID	108.3	120.0	120.5	100.5	125000 HURLEY 3 345 137451 LEEDS 3 345 1
126294	PLTVLLEY	345	137451 LEEDS 3	345 2	NGRID	1247.3	1538.0	1539.0	100.1	125002 ROSETON 345 126281 FISHKILL 345 1
130813	HICK 115	115	130845 RIDGT115	115 1	NYSEG	66.0	97.0	102.2	105.3	130782 CATON115 115 130814 HILSD115 115 1
130813	HICK 115	115	130845 RIDGT115	115 1	NYSEG	66.0	97.0	99.7	102.8	130782 CATON115 115 130813 HICK 115 115 1
146769	RAMP138	138	146773 SGRLF138	138 2	O&R	21.8	333.0	403.1	121.0	146754 MDTN TAP 345 146772 SHOEMTAP 138 1
146769	RAMP138	138	146773 SGRLF138	138 2	O&R	21.8	333.0	403.1	121.0	146771 SHOEM138 138 146772 SHOEMTAP 138 1
146769	RAMP138	138	146773 SGRLF138	138 2	O&R	21.8	333.0	403.1	121.0	SER:CMT34&MTR34
146758	CHESTER	138	146771 SHOEM138	138 1	O&R	173.9	300.0	315.7	105.2	125001 ROCK TAV 345 126297 RAMAPO 345 1
149018	871 115	115	149038 869 917	115 1	RGE	17.0	121.5	155.6	128.1	149014 8418 115 115 149016 867-1115 115 2
149036	STA 93	115	149062 87 115B2	115 1	RGE	38.2	143.4	173.2	120.8	149014 8418 115 115 149016 867-1115 115 2
149038	869 917	115	149036 STA 93	115 1	RGE	26.3	143.4	165.2	115.2	149014 8418 115 115 149016 867-1115 115 2
149029	8204 911	115	149033 842 115	115 1	RGE	132.6	207.2	232.3	112.1	149024 GINNA115 115 149196 8124C913 115 1
149033	842 115	115	149196 8124C913	115 1	RGE	137.7	207.2	228.5	110.3	149029 8204 911 115 149033 842 115 115 1
149033	842 115	115	149196 8124C913	115 1	RGE	137.7	207.2	227.3	109.7	149024 GINNA115 115 149029 8204 911 115 1
149029	8204 911	115	149033 842 115	115 1	RGE	132.6	207.2	226.6	109.4	149033 842 115 115 149196 8124C913 115 1



**Table 4-4: Post-Contingency Voltage Violations - 2018 Summer Peak Conditions - Phase II**

Bus #	Bus Name	kV	Area	Zone	System Intact Volt	Vlow	Vhigh	Cont Volt	Viol	Contingency
135411	ELM-71	230.0	1	145	1.0007	0.9000	1.1000	0.8870	LD	135413 GRDNV2 230 135416 SENCA-71 230 1
135412	ELM-72	230.0	1	145	1.0007	0.9000	1.1000	0.8870	LD	135413 GRDNV2 230 135417 SENCA-72 230 1
135416	SENCA-71	230.0	1	145	1.0009	0.9000	1.1000	0.8866	LD	135413 GRDNV2 230 135416 SENCA-71 230 1
135417	SENCA-72	230.0	1	145	1.0009	0.9000	1.1000	0.8866	LD	135413 GRDNV2 230 135417 SENCA-72 230 1
135263	BERRY RD	115.0	1	145	1.0549	0.9000	1.1000	0.9492	D	135263 BERRY RD 115 135273 DONKIRK1 115 1
135823	S215-187	115.0	1	145	1.0214	0.9000	1.1000	0.8978	LD	135509 NPWWP187 115 135823 S215-187 115 1
147997	DUPNT187	115.0	1	157	1.0212	0.9000	1.1000	0.8974	LD	135509 NPWWP187 115 135823 S215-187 115 1
135509	NPWWP187	115.0	1	145	1.0215	0.9000	1.1000	0.8916	LD	135509 NPWWP187 115 148002 CARBW187 115 1
135823	S215-187	115.0	1	145	1.0214	0.9000	1.1000	0.8916	LD	135509 NPWWP187 115 148002 CARBW187 115 1
147997	DUPNT187	115.0	1	157	1.0212	0.9000	1.1000	0.8913	LD	135509 NPWWP187 115 148002 CARBW187 115 1
135466	S215-188	115.0	1	145	1.0176	0.9000	1.1000	0.8851	LD	135466 S215-188 115 135511 NPWWP188 115 1
147998	DUPNT188	115.0	1	157	1.0173	0.9000	1.1000	0.8848	LD	135466 S215-188 115 135511 NPWWP188 115 1
135367	HARDFRTO	115.0	1	145	1.0364	0.9000	1.1000	0.8828	LD	135301 BETH-150 115 135450 GRDNV11 115 1
135301	BETH-150	115.0	1	145	1.0366	0.9000	1.1000	0.8822	LD	135301 BETH-150 115 135450 GRDNV11 115 1
135466	S215-188	115.0	1	145	1.0176	0.9000	1.1000	0.8785	LD	135511 NPWWP188 115 148006 CARBW188 115 1
135511	NPWWP188	115.0	1	145	1.0176	0.9000	1.1000	0.8785	LD	135511 NPWWP188 115 148006 CARBW188 115 1
147998	DUPNT188	115.0	1	157	1.0173	0.9000	1.1000	0.8782	LD	135511 NPWWP188 115 148006 CARBW188 115 1
135420	HARPR183	115.0	1	145	1.0252	0.9000	1.1000	0.8738	LD	135461 PACK(S)W 115 148004 CARBW183 115 1
135302	GIBSONT6	115.0	1	145	1.0284	0.9000	1.1000	0.8735	LD	135302 GIBSONT6 115 147851 NIAG115W 115 1
148014	GLIN-183	115.0	1	157	1.0249	0.9000	1.1000	0.8734	LD	135461 PACK(S)W 115 148004 CARBW183 115 1
147959	NCARRON7	115.0	1	157	1.0283	0.9000	1.1000	0.8733	LD	135302 GIBSONT6 115 147851 NIAG115W 115 1
147961	AIRCO197	115.0	1	157	1.0283	0.9000	1.1000	0.8733	LD	135302 GIBSONT6 115 147851 NIAG115W 115 1
147995	DUPNT183	115.0	1	157	1.0248	0.9000	1.1000	0.8733	LD	135461 PACK(S)W 115 148004 CARBW183 115 1
147963	TITANI197	115.0	1	157	1.0282	0.9000	1.1000	0.8732	LD	135302 GIBSONT6 115 147851 NIAG115W 115 1
148004	CARGR183	115.0	1	157	1.0272	0.9000	1.1000	0.8719	LD	135461 PACK(S)W 115 148004 CARBW183 115 1
135290	COOPER	115.0	1	145	1.0271	0.9000	1.1000	0.8531	LD	135282 HOMERHIL 115 135296 W.OL-155 115 1
135296	W.OL-155	115.0	1	145	1.0299	0.9000	1.1000	0.8503	LD	135282 HOMERHIL 115 135296 W.OL-155 115 1
135281	HARTFLD1	115.0	1	145	1.0137	0.9000	1.1000	0.8335	LD	135281 HARTFLD1 115 135286 MOON-162 115 1
135509	NPWWP187	115.0	1	145	1.0215	0.9000	1.1000	0.8311	LD	148002 CARBW187 115 148008 HOOKS187 115 1
135823	S215-187	115.0	1	145	1.0214	0.9000	1.1000	0.8311	LD	148002 CARBW187 115 148008 HOOKS187 115 1
148002	CARBW187	115.0	1	157	1.0217	0.9000	1.1000	0.8310	LD	148002 CARBW187 115 148008 HOOKS187 115 1
147997	DUPNT187	115.0	1	157	1.0212	0.9000	1.1000	0.8308	LD	148002 CARBW187 115 148008 HOOKS187 115 1
130788	COLDB115	115.0	1	149	1.0264	0.9000	1.1000	0.8128	LD	130788 COLDB115 115 135267 CABR CRW 115 1
135421	HARPR184	115.0	1	145	1.0237	0.9000	1.1000	0.8103	LD	135421 HARPR184 115 136544 UDG-184 115 1
148012	GLIN-184	115.0	1	157	1.0229	0.9000	1.1000	0.8093	LD	135421 HARPR184 115 136544 UDG-184 115 1
147996	DUPNT184	115.0	1	157	1.0227	0.9000	1.1000	0.8092	LD	135421 HARPR184 115 136544 UDG-184 115 1
135509	NPWWP187	115.0	1	145	1.0215	0.9000	1.1000	0.8017	LD	148007 GRTLK187 115 148008 HOOKS187 115 1
135823	S215-187	115.0	1	145	1.0214	0.9000	1.1000	0.8017	LD	148007 GRTLK187 115 148008 HOOKS187 115 1
148002	CARBW187	115.0	1	157	1.0217	0.9000	1.1000	0.8016	LD	148007 GRTLK187 115 148008 HOOKS187 115 1
148008	HOOKS187	115.0	1	157	1.0231	0.9000	1.1000	0.8014	LD	148007 GRTLK187 115 148008 HOOKS187 115 1
147997	DUPNT187	115.0	1	157	1.0212	0.9000	1.1000	0.8013	LD	148007 GRTLK187 115 148008 HOOKS187 115 1
149032	S33 902	115.0	2	153	1.0147	0.9000	1.1000	0.9014	D	149032 S33 902 115 149049 S82 B#3 115 02
135877	UNIVRSY	115.0	2	173	0.9860	0.9000	1.1000	0.8765	LD	135874 SWDN-113 115 135877 UNIVRSY 115 1
135863	N.LAKE 1	115.0	2	173	1.0009	0.9000	1.1000	0.8665	LD	135849 E.GOLAH 115 135895 BARILLA 115 1
135863	N.LAKE 1	115.0	2	173	1.0009	0.9000	1.1000	0.8652	LD	135857 GENFOOD 115 135895 BARILLA 115 1
135857	GENFOOD	115.0	2	173	1.0022	0.9000	1.1000	0.8641	LD	135849 E.GOLAH 115 135895 BARILLA 115 1
135895	BARILLA	115.0	2	173	1.0031	0.9000	1.1000	0.8641	LD	135849 E.GOLAH 115 135895 BARILLA 115 1
135857	GENFOOD	115.0	2	173	1.0022	0.9000	1.1000	0.8626	LD	135857 GENFOOD 115 135895 BARILLA 115 1
135854	BACKP7HS	115.0	2	173	0.9874	0.9000	1.1000	0.8162	LD	135854 BACKP7HS 115 135873 SWDN-111 115 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1461	H	130767 STOLE230 230 130770 SHLDN230 230 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1453	H	130767 STOLE230 230 130770 SHLDN230 230 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1397	H	130751 CNDGUA 7 230 130764 MEYER230 230 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1394	H	130770 SHLDN230 230 131122 WTHRS230 230 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1390	H	130751 CNDGUA 7 230 130764 MEYER230 230 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1386	H	130770 SHLDN230 230 131122 WTHRS230 230 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1350	H	130753 FRASR345 345 130755 OAKDL345 345 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1342	H	130753 FRASR345 345 130755 OAKDL345 345 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1333	H	131345 S.PER115 115 149010 STA 162 115 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1326	H	131345 S.PER115 115 149010 STA 162 115 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1115	H	130753 FRASR345 345 137200 EDIC 345 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1115	H	GEN:MILLST 3
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1108	H	GEN:MILLST 3
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1107	H	130753 FRASR345 345 137200 EDIC 345 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1103	H	GEN:IND PT 2
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1101	H	HQ-NY-765-New
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1098	H	GEN:IND PT 3
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1096	H	130755 OAKDL345 345 131128 LAPEER 345 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1095	H	GEN:IND PT 2
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1094	H	HQ-NY-765-New
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1090	H	GEN:IND PT 3
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1088	H	130755 OAKDL345 345 131128 LAPEER 345 1
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1076	H	131128 LAPEER 345 136153 LAFAYTTE 345 1
130872	CANADIAS	115.0	3	150	1.1213	0.9000	1.1000	1.1068	H	131128 LAPEER 345 136153 LAFAYTTE 345 1

Table 4-4 (Contd.)

130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1064	H	GEN:ML3360MS
130872	CANADIAC	115.0	3	150	1.1213	0.9000	1.1000	1.1056	H	GEN:ML3360MS
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1045	H	GEN:SEABROOK
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1045	H	GEN:SEABROOK
130872	CANADIAC	115.0	3	150	1.1213	0.9000	1.1000	1.1037	H	GEN:SEABROOK
130872	CANADIAC	115.0	3	150	1.1213	0.9000	1.1000	1.1037	H	GEN:SEABROOK
130871	CANADIAC	115.0	3	150	1.1221	0.9000	1.1000	1.1027	H	130755 OAKDL345 345 130757 WATRC345 345 1
130872	CANADIAC	115.0	3	150	1.1213	0.9000	1.1000	1.1019	H	130755 OAKDL345 345 130757 WATRC345 345 1
136206	HDSN-7	115.0	3	146	1.0170	0.9000	1.1000	0.9034	D	136159 BRIDGE 7 115 136189 DEWITT 1 115 1
136159	BRIDGE 7	115.0	3	146	1.0172	0.9000	1.1000	0.9032	D	136159 BRIDGE 7 115 136189 DEWITT 1 115 1
136230	FEAT-7	115.0	3	146	1.0158	0.9000	1.1000	0.9020	D	136159 BRIDGE 7 115 136189 DEWITT 1 115 1
136166	A/B LY13	115.0	3	146	0.9909	0.9000	1.1000	0.7462	LD	136166 A/B LY13 115 136173 ANHRS-13 115 1
136238	SOLVAY-B	115.0	3	146	0.9992	0.9000	1.1000	0.7336	LD	136238 SOLVAY-B 115 136269 SOLVAP2 115 1
136239	SOLVAY-H	115.0	3	146	1.0001	0.9000	1.1000	0.6561	LD	136200 GERES LK 115 136270 CRUC TAP 115 1
136270	CRUC TAP	115.0	3	146	1.0002	0.9000	1.1000	0.6559	LD	136200 GERES LK 115 136270 CRUC TAP 115 1
147897	SOLVMATT	115.0	3	146	1.0000	0.9000	1.1000	0.6556	LD	136200 GERES LK 115 136270 CRUC TAP 115 1
136186	CRUCIBLE	115.0	3	146	0.9998	0.9000	1.1000	0.6553	LD	136200 GERES LK 115 136270 CRUC TAP 115 1
147925	PMLD 3	115.0	4	158	1.0145	0.9000	1.1000	0.8753	LD	147923 PMLD 1 115 147925 PMLD 3 115 1
137222	CAMDNRW	115.0	5	147	0.9735	0.9000	1.1000	0.8965	L	137211 TRNG STN 115 137233 ONEIDA 115 1
137230	LEHIGH	115.0	5	147	0.9735	0.9000	1.1000	0.8965	L	137211 TRNG STN 115 137233 ONEIDA 115 1
130822	KLINE115	115.0	6	165	1.0237	0.9000	1.1000	1.2704	H	130793 CRARY115 115 130822 KLINE115 115 1
137914	WBURG115	115.0	6	148	1.0186	0.9000	1.1000	0.7923	LD	137902 SCOFIELD 115 137914 WBURG115 115 1
137889	RNAPP	115.0	6	148	1.0199	0.9000	1.1000	0.7915	LD	137902 SCOFIELD 115 137914 WBURG115 115 1
137896	W. CRK	115.0	6	148	1.0203	0.9000	1.1000	0.7905	LD	137902 SCOFIELD 115 137914 WBURG115 115 1
130931	STEPH115	115.0	6	165	1.0019	0.9000	1.1000	0.7782	LD	130931 STEPH115 115 137502 GBSH+LGE 115 1
130932	COOKE 18	115.0	6	165	1.0019	0.9000	1.1000	0.7782	LD	130931 STEPH115 115 137502 GBSH+LGE 115 1
137914	WBURG115	115.0	6	148	1.0186	0.9000	1.1000	0.6711	LD	137880 EJW+STWB 115 137902 SCOFIELD 115 1
137902	SCOFIELD	115.0	6	148	1.0201	0.9000	1.1000	0.6696	LD	137880 EJW+STWB 115 137902 SCOFIELD 115 1
137889	RNAPP	115.0	6	148	1.0199	0.9000	1.1000	0.6690	LD	137880 EJW+STWB 115 137902 SCOFIELD 115 1
137896	W. CRK	115.0	6	148	1.0203	0.9000	1.1000	0.6670	LD	137880 EJW+STWB 115 137902 SCOFIELD 115 1
137868	BROOK1	115.0	6	148	0.9973	0.9000	1.1000	0.4271	LD	137867 BROOK W 115 137868 BROOK1 115 1
137919	SMITHRR1	115.0	6	148	0.9945	0.9000	1.1000	0.4225	LD	137867 BROOK W 115 137868 BROOK1 115 1
137915	WEIHEL1	115.0	6	148	0.9930	0.9000	1.1000	0.4201	LD	137867 BROOK W 115 137868 BROOK1 115 1
126260	BOWLINE1	345.0	7	176	1.0443	0.9510	1.0490	1.0568	H	126263 BOCHANAN S 345 126290 LADENTWN 345 1
130842	PAWLNI15	115.0	8	174	0.9928	0.9000	1.1000	0.8962	L	125026 FISHKILL 115 131112 SYLVN115 115 1
131112	SYLVN115	115.0	8	174	1.0092	0.9000	1.1000	0.8934	LD	125026 FISHKILL 115 131112 SYLVN115 115 1
155073	STLAWL34	230.0	103	1105	1.0416	0.9520	1.0520	1.0752	H	147839 MOSES E 230 155073 STLAWL34 230 1

## 5 TRANSFER LIMITS FOR INTERMEDIATE YEAR

This section describes the calculation of transfer limits for key interfaces in the New York State Transmission System for summer peak load conditions in the Intermediate Year. The purpose of these calculations is to establish emergency transfer limits for use in subsequent LOLE analysis.

Transfer limits were computed based on the Intermediate Year power flow model described in Section 3 of this report. Both thermally-constrained and voltage-constrained interfaces are studied. The limits are then compared against corresponding limits derived in Phase 1 of the STARS study.

### 5.1 Calculation of Emergency Thermal Transfer Limits

#### 5.1.1 Methodology

Emergency transfer limits were established using the Linear FCITC Calculation tool in the PSS<sup>TM</sup>MUST Program (version 9.0).

The emergency transfer limit is the transfer level at which:

- a branch is loaded at its normal rating (Rate A) for pre-contingency conditions, or
- a branch is loaded at its short-term emergency rating (Rate C) following a contingency

For the purposes of this analysis, transmission facilities rated 100 kV and above within NYCA (and tie-lines out of NYCA) were monitored. Engineering judgment was used to identify limiting transmission facilities. Generally, “direct tie” facilities or facilities in the vicinity of the interface being studied that became loaded at their Rate A or Rate C ratings as described above were flagged.

The following types of contingencies were simulated based on the contingency files provided by NYISO. In addition to these contingencies, other contingencies provided by National Grid associated with wind generation in the North Country were simulated.

1. Outage of branches connected between buses with a base voltage of 100 kV and above (these included outages based on “automatic” N-1 contingency specification<sup>5</sup> in MUST and specific pre-defined branch outages)
2. Generator outages
3. Series element contingencies

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<sup>5</sup> Automatic N-1 contingencies were not simulated in the Con Edison system. Also, some automatic N-1 contingencies in NYCA were excluded from analysis based on transmission owner input. See Appendix A.4 for a list of excluded monitored elements and contingencies.

4. Bus contingencies
5. HVdc contingencies

Phase angle regulators (PARs) maintain their scheduled power flow pre-contingency but are fixed at their corresponding pre-contingency angle post-contingency.

Appendix B shows the relevant subsystem description, monitored element and contingency description files used in this analysis (these files are the same as those used in Phase 1 of the STARS study).

Limits were evaluated in the predominant west-to-east/north-to-south direction based on source/sink assumptions provided by the NYISO in Phase 1 of the STARS study.

### 5.1.2 Results

Table 5-1 summarizes the emergency thermal transfer limits obtained from the MUST analysis for the cross-state interfaces (full MUST output for the various interfaces is provided in Appendix C). For comparison purposes, corresponding limits from Phase 1 of the STARS study are also summarized. The last two columns summarize the differences between the two sets of limits both in MW and as a percentage of the Phase 1 limits.

As in the Phase 1 study, transfer limits for the upstate interfaces were calculated without making any adjustments to the base case. Limits for the downstate interfaces are sensitive to phase angle regulator settings in Con Edison and LIPA and were calculated as described below:

Interface limits for the UPNY-ConEd Open, Millwood South Closed, Dunwoodie South Plan and I to J interfaces were calculated with Con Edison PARs optimized based on input from Con Edison to regulate flows on the following branches:

- 126298 - 126301 (Sprainbrook to Tremont) – Increase from 400 MW to 480MW
- 126298 - 126847 (Sprainbrook to Academy) – Increase from 400 MW to 460 MW
- 126374 - 126485 (Dunwoodie South to East 179th Street) – Increase from 120 MW to 180 MW

Limits for the “I to K” interface were computed by adjusting the E. Garden City PARs to regulate the flow on the Y49 cable (Sprainbrook-EGC 345) to its maximum flow limit of 637 MW. The limiting facility for this interface is the Y50 cable (Dunwoodie-Shore Road 345). The power flow case shows a normal rating of 599 MVA for this facility while the limit is calculated based on a normal rating of 653 MVA<sup>6</sup>. As shown in Table 5-1, the interface limit of 1290 MW limit is based on the 653 MVA normal rating.

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<sup>6</sup> LIPA indicated that the 599 MVA rating for Y50 is based on a 100% loss factor while the 653 MVA rating is based on a 70% loss factor and rapid oil circulation.

**Table 5-1: Emergency Thermal Transfer Limits**

Interface	Phase 1 limits		Phase 2 limits		Difference	
	MVA	Limit	MVA	Limit	MVA	%
Dysinger East	3266	1a	3237	1a	-29	-0.89%
West Central	1877	1a	1847	1a	-30	-1.60%
Moses South	2660	7	2658	7	-2	-0.08%
Volney East	4540	2	4555	2	15	0.33%
Total East (Closed)	6696	2	6711	2	15	0.22%
Central East	3007	3	3014	3	7	0.23%
Central East + Fraser-Gilboa	3209	2	3221	2	12	0.37%
CE Group	5165	2	5180	2	15	0.29%
F to G	3485	4	3486	4	1	0.03%
UPNY-SENY Open	5124	4	5238	4	114	2.22%
UPNY-ConED Open	5821	5	5821	5	0	0.00%
Millwood South Closed	9793	8	9791	8	-2	-0.02%
Dunwoodie South Plan	5780	6a	5739	6a	-41	-0.71%
I to J	4460	6a	4450	6a	-10	-0.22%
I to K with Y49 flow set to 637 MW and Y50 Rate A = 653 MVA	1293	10	1290	10	-3	-0.23%
LIPA Import with Y49 flow set to 637 MW and Y50 Rate A = 653 MVA	2905	10	2896	10	-9	-0.31%

Limiting facility	Limiting Rating MVA	Contingency
1a Stolle-Meyer 230	430	Pre-disturbance
2 Coopers Corners-Frasers 345	1207	Pre-disturbance
3 New Scotland77-Leeds 345	1724	L/O New Scotland99-Leeds 345
4 Pleasant Valley-Leeds 345	1725	L/o Athens-Pleasant Valley 345
5 Middletown Tap-Coopers Corners 345	1793	L/O Rock Tavern-Coopers Corners 345
6a Dunwoodie-Mott Haven 345	783	Pre-disturbance
7 Moses-Adirondack 230	440	L/O Massena-Marcy &Massena-Chateaguay
8 Roseton-Fishkill 345	1935	Pre-disturbance
10 Dunwoodie-Shore Rd 345	653	Pre-disturbance

Limits for the “Long Island Import” interface were calculated by adjusting the PARs controlling the LIPA import to allow for maximum emergency transfer capability into LIPA as follows:



	<u>Emergency</u>
Jamaica – Lake Success 138 kV	85 MW
Jamaica – Valley Stream 138 kV	90 MW
Sprainbrook – EGC 138 kV	637 MW
Norwalk Harbor 138 kV – Northport	450 MW <sup>7</sup>

The limiting facility for this interface is the Y50 cable (Dunwoodie-Shore Road 345). See Appendix C. As shown in Table 5-1, the interface limit of 2896 MW is based on the 653 MVA normal rating.

The limits shown in Table 5-1 are comparable to the limits derived in Phase 1 of the STARS study [2]. This makes sense because no additional transmission was added in Phase 2 and also the generation patterns in NYCA are similar to those in Phase 1.

## 5.2 Calculation of Emergency Voltage Transfer Limits

### 5.2.1 Methodology

Emergency voltage transfer limits were calculated using the PV Analysis tool of PSS/E™ (version 30).

The limits were calculated by preparing a series of power flow cases with increasing MW transfers across the interfaces being studied and subjecting them to severe (voltage-wise) contingencies. The monitored buses were then reviewed for violations of post-contingency minimum voltage criteria and/or voltage collapse.

The testing followed NYISO practices and procedures discussed in Attachment E of the NYISO Transmission Expansion and Interconnection Manual [3]. MW transfers were increased until the point of voltage collapse was reached. In power flow analysis, this point is the highest transfer level for which a solution can be achieved. There is no solution beyond this transfer level because there are no more dispatchable reactive power resources available to support the transfer. Upon plotting the specific bus voltage (y-axis) against the pre-contingency MW transfer level (x-axis), the impending voltage collapse can be identified as the knee point on the PV curve. Based on the maximum sustainable pre-contingency MW transfer (i.e. the transfer level for which a solution can be achieved post contingency; with any further increases in power transfer rendering the system un-solvable due to reactive power deficiency), a reduced pre-contingency transfer level based on a 5% safety margin is determined. This reduced transfer is then compared against the pre-contingency MW transfer level which corresponds to a post-contingency minimum voltage at the monitored buses. In order to ensure that a voltage-based transfer limit is computed with a margin of safety, the lower of the two power transfers (i.e. 95% of that corresponding to voltage collapse point or that obtained by

<sup>7</sup> Note: As per LIPA, the total NNC rating in the Intermediate and Horizon years would be 450 MVA.

applying the relevant post-contingency low voltage limit) is chosen as the voltage-limited interface maximum transfer level.

The following assumptions were made for the analysis:

1. Phase angle regulators (“PARs”), switched shunts and LTC transformers are modeled as regulating pre-contingency and non-regulating post-contingency.
2. SVC and FACTS devices are set to near zero pre-contingency and allowed to operate full range post-contingency.

For all interfaces voltage transfer limit calculations, the planned / stimulus capacitor banks were fixed to their maximum values. Downstate capacitor banks were maximized while computing the limits of Total East, Central East, CE+Fraser-Gilboa, CE-GROUP, F to G, UPNY-SENY, UPNY-ConED, Millwood South Closed, I to J+K, Marcy South and Volney East interfaces. In addition to maximizing the downstate capacitor banks, the phase angle regulators in the Con Edison system were modeled as described in Section 5.1.2.

Transfer limits were evaluated in the predominant west-to-east/north-to-south direction. Monitored buses and contingencies simulated for each interface are given in Appendix D.

## 5.2.2 Results

Table 5-2 summarizes the emergency voltage transfer limits on the Intermediate Year summer peak case described in Section 3.2 (detailed PV curves for each interface are given in Appendix D). For comparison purposes, corresponding limits from the STARS Phase 1 analysis are also summarized [2]. The last column shows the differences between the two sets of limits as a percentage of the Phase 1 limits.

As in the Phase 1 analysis, limits for Central East, CE+Fraser-Gilboa and CE-Group interfaces are shown with and without the Plattsburgh-Sandbar line included in the interface definitions. Total East interface limits were computed by including the Plattsburgh-Sandbar 115 kV line and the Linden VFT in the interface definition. UPNY-SENY interface includes the Jefferson-Ramapo 500 kV line in the interface definition.

Figure 5-1 shows the PV curves for the Dysinger East interface at the Rochester 345 kV bus for different contingencies. For each contingency, the post-contingency voltage at Rochester 345 kV is plotted against the pre-contingency MW flow on the interface. The most limiting contingency is the loss of Ginna generation (LOG02). Note from the Figure 5-1 that for this particular contingency, the nose of the curve is approx. 2712 MW. The pre-contingency transfer that corresponds to 95% of 2712 MW is 2576 MW.

Similarly, Figure 5-2 shows the PV curves for the West Central interface at the Rochester 345 kV bus for different contingencies. As before, the most limiting

contingency is the loss of Ginna generation (LOG02). The emergency voltage transfer limit is 1205 MW.

Note from Table 5-2 that there is a significant improvement in the Phase 2 emergency voltage transfer limits. This is a consequence of planned / stimulus capacitor additions.

### **5.3 Consolidation of Emergency Thermal and Voltage Transfer Limits**

Emergency thermal and emergency voltage transfer limits for the cross-state interfaces are consolidated and presented in Table 5-3. The most limiting of the two transfer limits is shown in the last column.



Table 5-2: Comparison of Phase I and II Emergency Voltage Transfer Limits

Case	Interfaces	Post-Contingency Low (A)				95% Voltage Collapse (B)			2018 Limit Min(A,B)	Diff % (PhI & PhI)
		MW Flow	Limiting bus	Limit. Volt.	Con	MW Flow	Con	Tip of Curve		
Ph I	Dysinger East	2833	Rochester 345	328	WC12	2504	LOG02	2636	2504	2.9
Ph II		2945	Rochester 345	328	WC12	2576	LOG02	2712		
Ph I	West Central	1400	Rochester 345	328	WC12	1134	LOG02	1194	1134	6.2
Ph II		1498	Rochester 345	328	WC12	1205	LOG02	1268		
Ph I	Moses South	2025	Porter 2 230	218	CE20	1971	CE08&CE07	2075	1971	4.4
Ph II		-	-	-	-	2058	CE20	2166		
Ph I	Volney East	-	-	-	-	3952	CE15	4160	3952	13.2
Ph II		4653	Oakdale 345	320	CE18	4475	CE07	4711		
Ph I	TOTAL EAST	6600 <sup>e</sup>	New Scotland 345	328	CE08	6270	CE18	6600	6270	7.5
Ph II		6847	New Scotland 345	328	CE18	6741	CE18	7096		
Ph I	CENTRAL EAST (N)	2795 <sup>e</sup>	New Scotland 345	328	CE08	2604	CE18	2741	2604	12.4
Ph II		2987	New Scotland 345	328	CE18	2926	CE18	3080		
Ph I	CE+FRAS-GILB (N)	3160 <sup>e</sup>	New Scotland 345	328	CE08	2916	CE18	3069	2916	15.4
Ph II		3412	New Scotland 345	328	CE18	3366	CE18	3543		
Ph I	CE-GROUP (N)	4900 <sup>e</sup>	New Scotland 345	328	CE08	4587	CE18	4828	4587	12.8
Ph II		5296	New Scotland 345	328	CE18	5175	CE18	5447		
Ph I	F to G	3893	Pleasant Valley 345	328	CE18	3760	CE18&LOG09	3958	3760	7.5
Ph II		4152	Pleasant Valley 345	328	CE18	4040	CE18	4253		
Ph I	UPNY-SENY	7152	Pleasant Valley 345	328	CE18&CE19	6528	UC20&UC26	6872	6528	6.5
Ph II		7270	Pleasant Valley 345	328	CE18&CE19	6954	UC26	7320		
Ph I	UPNY-ConED	5636	Sprain Brook 345	328	UC20	5392	UC20&UC26	5676	5392	1.4
Ph II		5708	Sprain Brook 345	328	UC20	5469	UC20	5757		
Ph I	Millwood South Closed	8518	Sprain Brook 345	328	UC20	8161	UC20&UC26	8590	8161	-0.8
Ph II		8484	Sprain Brook 345	328	UC20	8098	UC20	8524		
Ph I	I to J+K	5413	Sprain Brook 345	328	UC20	5178	UC20&UC26	5450	5178	1.6
Ph II		5496	Sprain Brook 345	328	UC20	5259	UC20	5536		
Ph I	Marcy South	1740	Pleasant Valley 345	328	CE18	1686	CE18	1775	1686	8.5
Ph II		1884	Pleasant Valley 345	328	CE18	1830	CE18	1926		

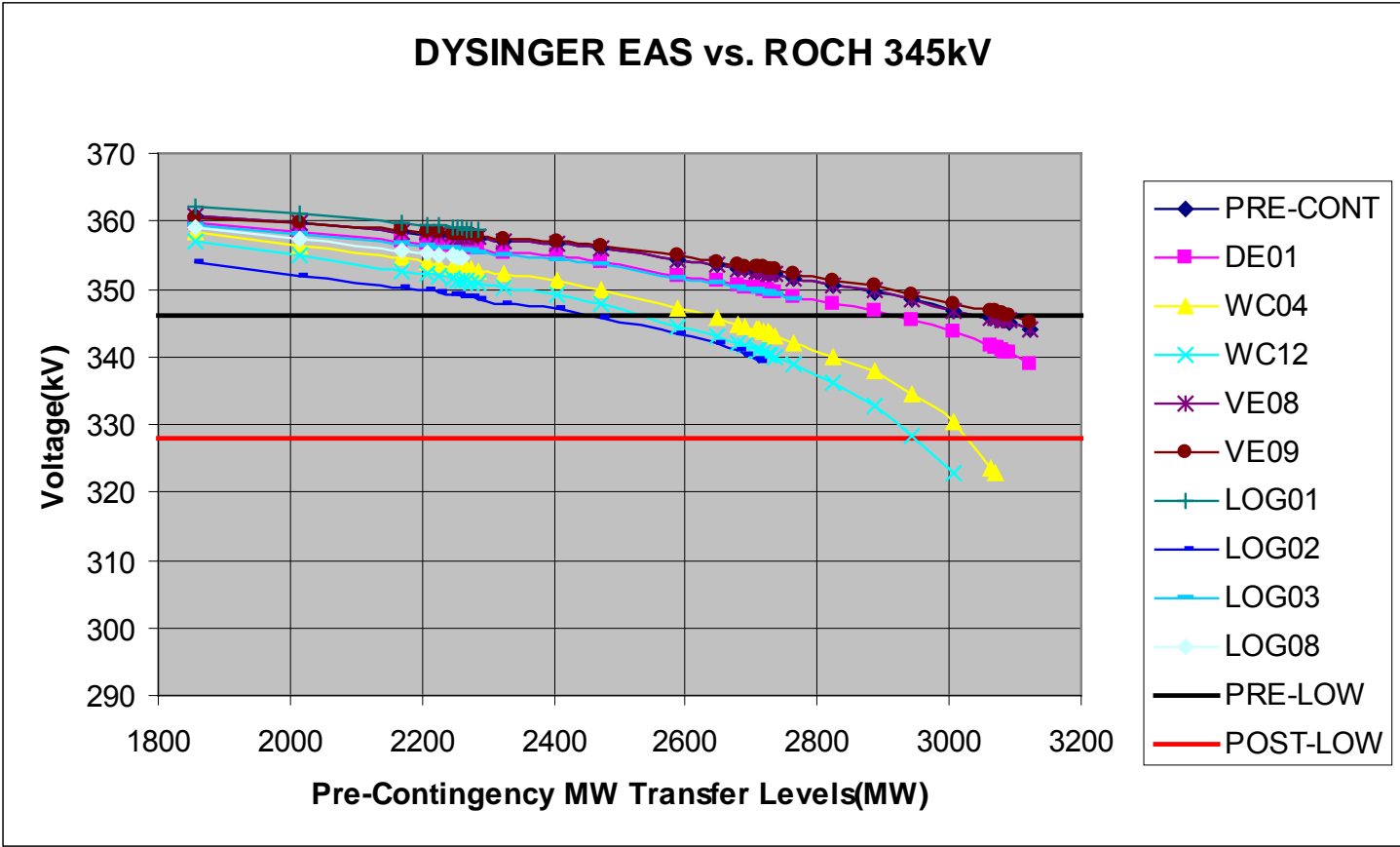


Figure 5-1: PV Curves for Dysinger East Interface



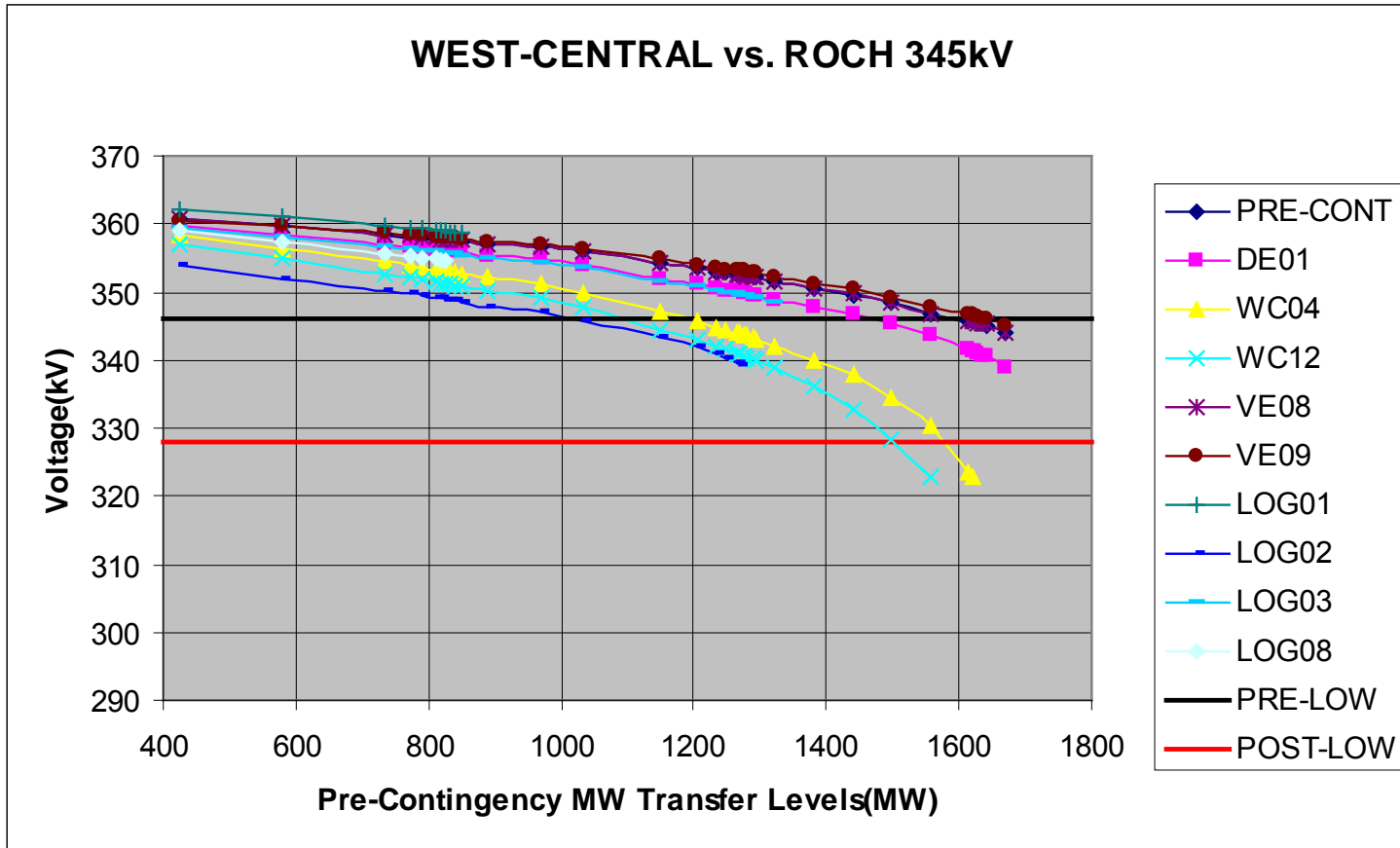


Figure 5-2: PV Curves for West Central Interface

Table 5-3: Consolidation of Emergency Thermal and Voltage Transfer Limits

Interface	STARS Phase 1 Power Flow Case (Intermediate Year)			STARS Phase 2 Power Flow Case (Intermediate Year)		
	Emergency Thermal Transfer Limit (MW)	Emergency Voltage Transfer Limit (MW)	Min (Thermal, Voltage)	Emergency Thermal Transfer Limit (MW)	Emergency Voltage Transfer Limit (MW)	Min (Thermal, Voltage)
Dysinger East	3266	2504	2504 (V)	3237	2576	2576 (V)
West Central	1877	1134	1134 (V)	1847	1205	1205 (V)
Moses South	2660	1971	1971 (V)	2658	2058	2058 (V)
Volney East	4540	3952	3952 (V)	4555	4475	4475 (V)
Total East (Closed)	6696	6270	6270 (V)	6711	6741	6711 (T)
Central East	3007	2604	2604 (V)	3014	2926	2926 (V)
Central East + Fraser-Gilboa	3209	2916	2916 (V)	3221	3366	3221 (T)
CE Group	5165	4587	4587 (V)	5180	5175	5175 (V)
F to G	3485	3760	3485 (T)	3486	4040	3486 (T)
UPNY-SENY Open	5124	6528	5124 (T)	5238	6954	5238 (T)
UPNY-ConEd Open	5821	5392	5392 (V)	5821	5469	5469 (V)
Millwood South Closed	9793	8161	8161 (V)	9791	8098	8098 (V)
Dunwoodie South Plan / I to J+K	5780	5178	5178 (V)	5739	5259	5259 (V)
I to J	4460	N/A	4460 (T)	4450	N/A	4450 (T)
I to K (Y49/Y50) with Y49 flow set to 637 MW and Y50 RateA=653 MVA	1293	N/A	1293 (T)	1290	N/A	1290 (T)
LI Import (with LIPA imports maximized and Y50 RateA=653 MVA)	2905	N/A	2905 (T)	2896	N/A	2896 (T)
Marcy South	N/A	1686	1686 (V)	N/A	1830	1830 (V)

(T) = Thermally-constrained  
(V) = Voltage-constrained  
N/A: Not applicable

## **PART II – LOLE ANALYSIS**

## 6 LOLE AND TRANSFER MW NEEDS REVISION FOR SCENARIOS 2, 3 AND 4

In Phase 1, the LOLE results and subsequently interface transfer MW needs were calculated based on 2008 series powerflow case and RNA database. Results of the Phase 1 analysis showed that except for Scenario 1, where 85% of new generation is located down state, Scenarios 2, 3 and 4 all have LOLEs above the criteria of 0.1 day/year, and would require transmission capacity upgrades (Table 9-8, Phase 1 report).

After the completion of Phase 1, the list of approved generation and transmission projects were updated (see Section 2 of this report). The Phase 1 reliability model was updated and the LOLE for the modified Scenarios 2A, 3A and 4A were recomputed. This Section describes the updated LOLE and MW Need results for these 3 scenarios.

### 6.1 LOLE Index

GridView simulations were performed for three scenarios 2A, 3A and 4A and the LOLE indices were re-calculated. The result is shown in Table 6-1. The result shows that with 550 MW added to zone J and 32.5 MW effective solar capacity added to zone K, the LOLE indices reduced significantly for all the three scenarios: from 1.68 to 0.96 days/year for Scenario 2; from 0.2 to 0.08 days/year for Scenario 3 and from 0.44 to 0.36 days/year for Scenario 4.

**Table 6-1: Calculated LOLE values for Scenarios 2A, 3A and 4A.**

Zones	Horizon Year's LOLE (days/year)		
	Scenario 2A	Scenario 3A	Scenario 4A
A	-	-	-
B	0.34	0.03	0.12
C	-	-	-
D	-	-	-
E	0.82	0.06	0.32
F	-	-	-
G	0.80	0.08	0.30
H	0.00	0.00	0.00
I	0.88	0.07	0.30
J	0.97	0.07	0.33
K	1.02	0.08	0.38
<b>NYCA</b>	<b>0.96</b>	<b>0.08</b>	<b>0.36</b>

### 6.2 Additional Transmission Capacity

Since the updated Scenario 3A has an LOLE of 0.08days/yr, only Scenarios 2A and 4A would need additional transmission capacity. Using the methodology, described in Phase 1 report (Section 9.4), a series of sensitivity cases were simulated for Scenarios

2A & 4A. Additional transmission capacities were calculated (based on statistical average peak interface flow value) and result is shown in Table 6-2.

**Table 6-2: Transfer MW need**

<b>Additional Transfer Capability (MW) Need</b>									
	<i>Scenario 2</i>	<i>Scenario 2A</i>	<i>Reduction</i>	<i>Scenario 3</i>	<i>Scenario 3A</i>	<i>Reduction</i>	<i>Scenario 4</i>	<i>Scenario 4A</i>	<i>Reduction</i>
I to J	1,135	505	630	386	0	386	424	0	424
Marcy South	435	173	262	15	0	15	257	6	251
F to G	1,171	698	473	187	0	187	399	89	310
UPNY-SENY	1,735	933	803	249	0	249	702	142	560
CE Group	1,460	766	694	150	0	150	1,185	712	473
Central East	1,047	745	302	279	0	279	1,106	750	356
Volney East	1,314	916	398	492	0	492	648	256	392
West Central	265	102	164	316	0	316	192	0	192
Y49Y50	752	499	253	159	0	159	972	719	253
Total East	1,274	499	774	0	0	0	456	0	456
Moses South	0	0	0	0	0	0	228	0	228
HQ - D	0	0	0	0	0	0	550	300**	250
UPNY-CE	1,219	561	658	NA	0	NA	NA	0	NA

\*\* - based on HQ-D non-emergency limit of 1200 MW

## 7 SENSITIVITY CASES

In Scenario 4A, the assumption is that 75% new generation resource is from external areas, especially 2267 MW of new generation from HQ. However, the transfer MW need calculation (emergency transfer for reliability purposes) did not show a need above the 1500 MW for the HQ to D interface (Table 6-2). The MW need values shown in the above Table (and in the Phase-I & II Reports) are calculated using the probabilistic approach. Further, the internal and external resources are assigned different priorities (as explained in Phase-I report). Thus, the probability of needing the all the external resources (simultaneously after exhausting internal resources) to meet the target LOLE is very low and hence the weighted average of the transfers across this interface is not more than the 1500MW for Scenario 4A.

However, from a deterministic view (or a power flow dispatch model) transmission capacity that is at least equal to the generation capacity is necessary, if all the external generation is dispatched. Further, economic dispatch of generation may justify much higher transmission capacity for this interface.

In order to illustrate the effect of the priority and other assumptions used in the LOLE calculations five different sensitivity cases were simulated. The results of five sensitivity simulations are shown in Table 7-1.



**Table 7-1: Scenario 4 Sensitivity**

Zones	Scenario 4 Sensitivity LOLE (days/year)						
	Case 4A	Case 4B	Case 4B1	Case 4C	Case 4D	Case 4E	Case 4F
A	-	-	-	-	-	-	-
B	0.12	0.12	0.13	0.05	0.07	0.06	0.05
C	-	-	-	-	-	-	-
D	-	-	-	-	-	-	-
E	0.32	0.32	0.36	0.15	0.19	0.15	0.13
F	-	-	0.00	0.00	-	0.00	-
G	0.30	0.30	0.38	0.17	0.22	0.17	0.14
H	0.00	0.00	-	0.00	-	-	-
I	0.30	0.30	0.36	0.17	0.20	0.15	0.13
J	0.33	0.33	0.42	0.18	0.22	0.18	0.14
K	0.38	0.38	0.45	0.19	0.24	0.19	0.16
<b>NYCA</b>	0.36	0.36	0.43	0.18	0.23	0.18	0.15

**CASE-4A:** In Scenario 4A (Case 4A in Table 7-1) all new external resource generators were modeled as new generation units actually connected to external area networks in HQ and PJM East, as shown in the bubble diagram (Figure 7-1). Because, these units are located within the external areas, these were utilized with priority level two, i.e. after exhausting all resources within the state.

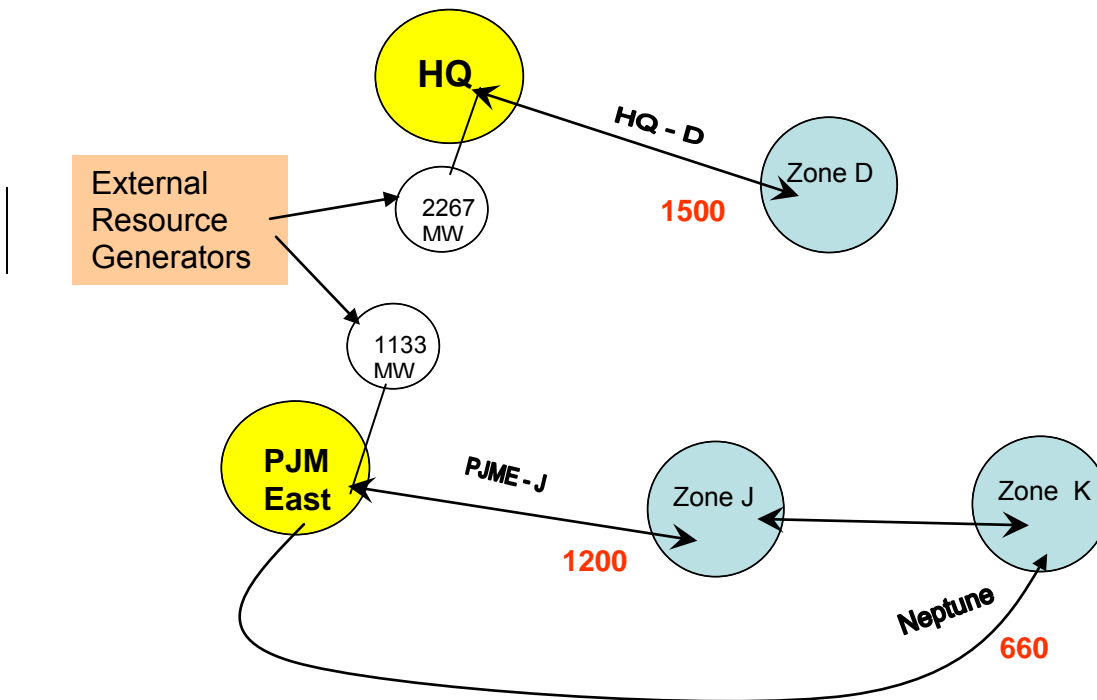


Figure 7-1. Bubble diagram of Case 4A

**Case 4B:** In Case 4A, the new units (even though physically connected to the external networks) are assumed to be dedicated to supply power to the New York state. Then, a question arises - if these units are dispatched with priority level one (same priority as the units within the state); instead of priority two as was done in Case 4A; would the LOLE increase? For answering this question, a sensitivity Case 4B was created with the new external units physically connected to NYCA areas as shown in bubble diagram (Figure 7-2). The steps used for creating Case 4B, starting from Case 4A are;

- Move 2,267 MW newly added generation (8 units of 250 MW and 1 unit of 267 MW) from HQ bus to fictitious bus within zone D, which is radially connected to bus: #147828 (MASS 765) 765kV
- Move 1,133 MW newly added generation (4 units of 250 MW and 1 unit of 133 MW) from PJM to fictitious zone J bus, which is radially connected to bus: #126304 (W 49TH ST) 345kV

The interface limits for this case are same as those used in Case 4A. The only change made is the priority for these external units form two to one. The calculated LOLE is same as in Case 4A, thereby confirming that the priority assignment or assumption did not affect the reliability calculations.

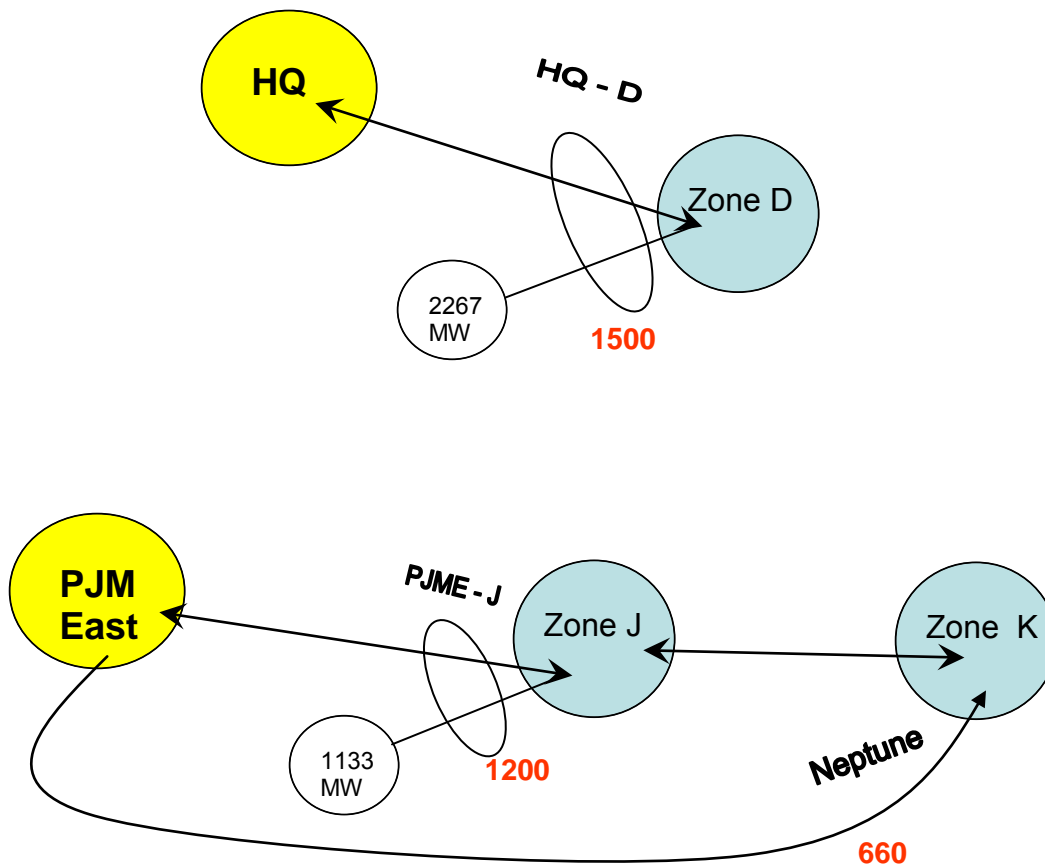


Figure 7-2. Bubble diagram of Case 4B

**Case 4B1:** In the above case, the 1133 MW (located in PJM) was directly connected to Zone-J. But, a part of this capacity may be assigned to zone-K. For evaluating such a division of this external resource, the 1133MW in PJM is split into two parts (as shown in Figure 7-3):

- a) Move 770 MW newly added generation (2 units of 250 MW and 1 unit of 270 MW) from PJM to fictitious zone J bus, which is radially connected to bus: #126304 (W 49TH ST) 345kV, and
- b) Move newly created 363 MW unit to zone K bus #128842 (NEPTCONV) 345kV

The LOLE of 0.43days/year for case 4B1 is a bit higher, because the 363 MW was directly connected to zone K, but the PJME-K limit (base loaded dc interface) was not increased to accommodate it, so it is equivalent to Case 4B with 363 MW PJM import generation being not available when the Neptune dc is fully loaded.

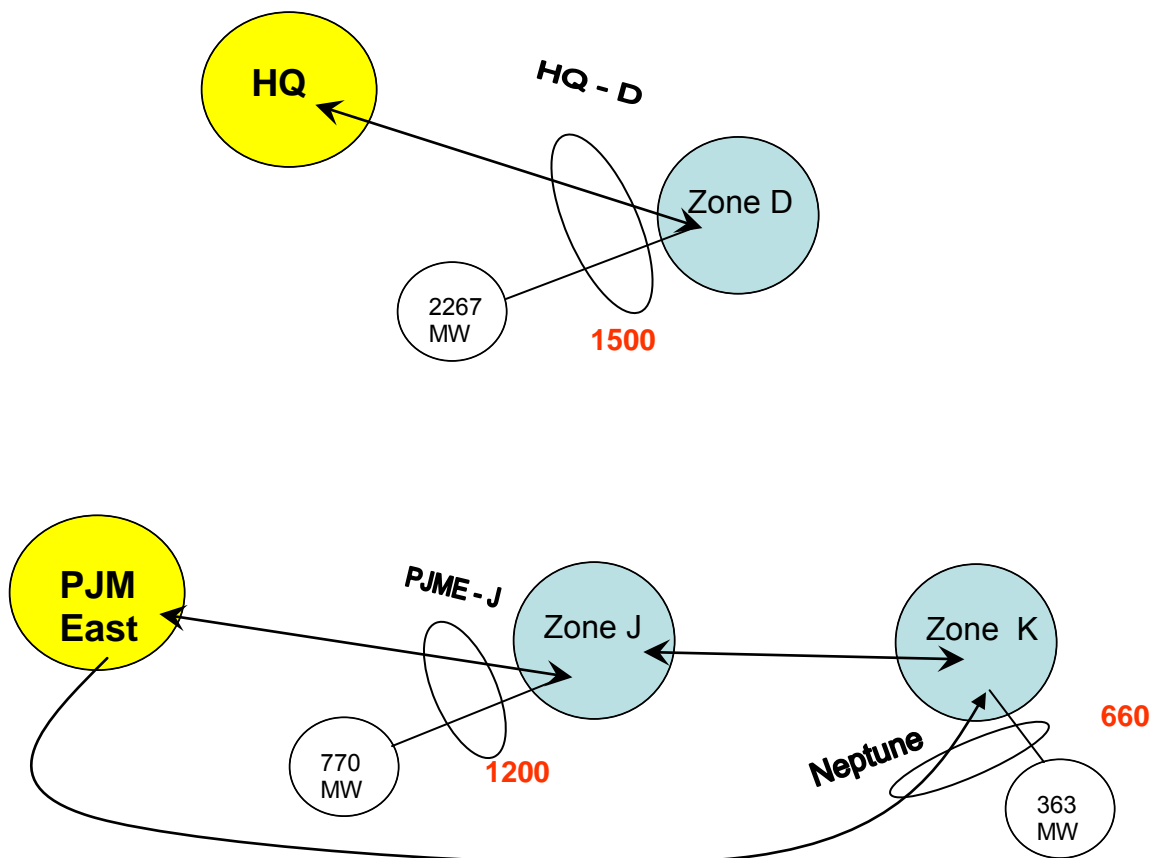


Figure 7-3. Bubble diagram of Case 4B1

**Case 4C:** If a large amount of new and economical generation is located in the external areas; then it is conceivable that these resources will be dispatched to the maximum extent. Consequently, the import interfaces, namely, HQ-D, PJME-J and PJME-K may be upgraded, on the basis of economics, to accommodate the ensuing power flows. Any such upgrade would also be useful for reliability purposes as well. For establishing the degree of reliability improvement due to any such import interface limit increase, another Case 4C was created from Case 4B1 plus three import interface limit upgrades:

- HQ-D from 1500 MW to 3400 MW (increase of 1900 MW)
- PJME - J from 1200 MW to 1970 MW (increase of 770 MW)
- PJME - K from 660 MW to 1023 MW (increase of 363 MW)

The bubble diagram of case 4C is shown in Figure 7-4. The calculated LOLE for this case is 0.18 days/year (Table 7-1). Even though, the LOLE decreased, as expected, the reliability benefit (or LOLE reduction) itself is not that significant as compared the level of interface upgrades assumed for this case.

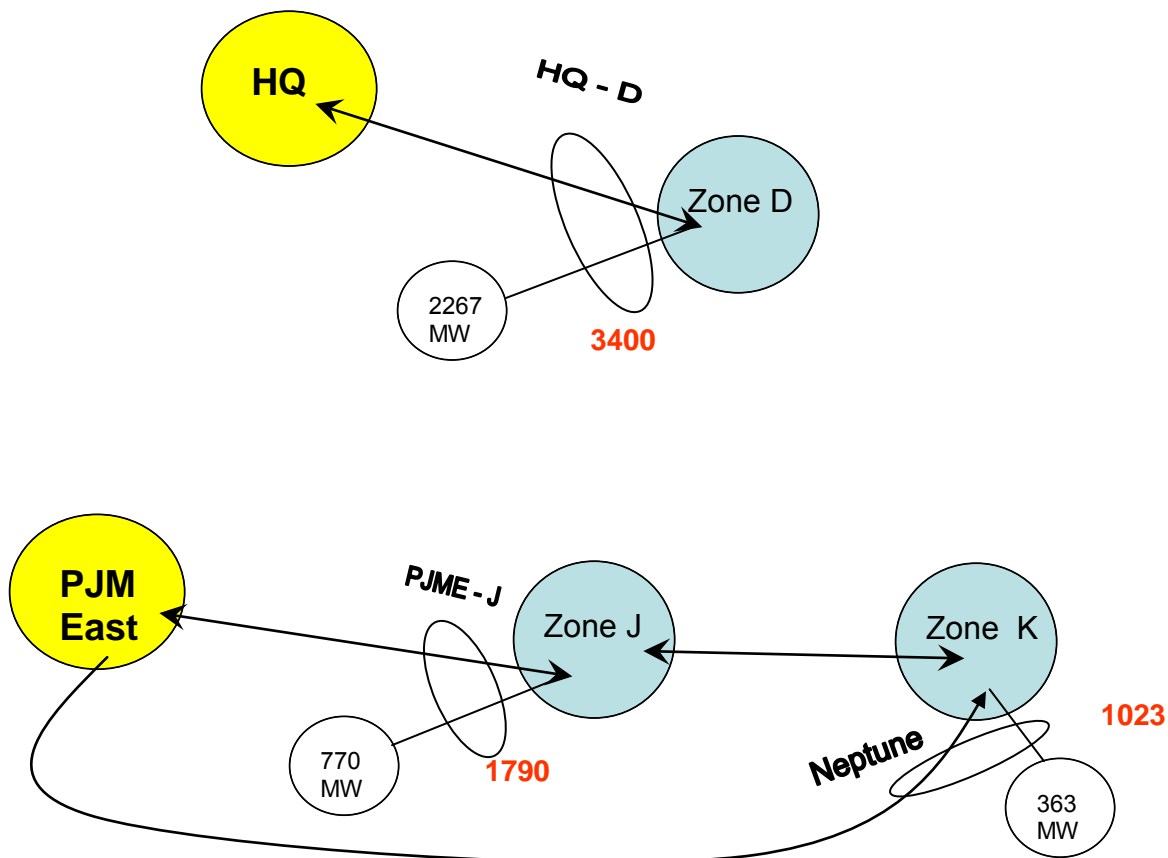


Figure 7-4. Bubble diagram of Case 4C

**Case 4D:** Based on Phase-I results and comparison of LOLE for Cases 4B and 4B1; the importance of supporting zone-K for reliability improvement either thru' direct embedded generation within the zone or increasing the import interface limit is evident. Further, in Case 4C the smallest upgrade assumption is for the PJM-E to zone-K interface. For determining the reliability benefit of upgrading this interface, another sensitivity case was created by increasing the PJME - K transfer limit from 660 MW to 1023 MW (increase of 363 MW). Cases 4B1 and 4D results showed that by increasing this interface limit from 660 MW to 1023 MW, the LOLE reduced from 0.43 to 0.23days/yr, a substantial benefit as compared to the amount of limit increase.

**Case 4E:** For Case 4C, the calculated value for NYCA LOLE is 0.18days/yr. This is above the target of 0.1day/yr and hence, there is still some MW need requirement not fulfilled for internal interfaces. Upto the previous sensitivity Case 4D, the interface transfer limits used were from Phase-I Report. Since then, these transfer limits have been re-computed (Phase II Report-Section 5). The recalculated transfer limits are a bit higher for many of the interfaces. Hence, LOLE was recalculated using the revised/updated new interface limits. A new Case 4E was created from Case 4C plus revised NYCA interface limits, as calculated in Phase II (Section 5 of this report).

The calculated LOLE of 0.18day/yr showed that the new (somewhat higher) interface limits did not reduce NYCA LOLE.

**Case 4F:** The LOLE for Case 4E is still above the limit. Since LOLE variation is highly non-linear and very sensitive to small changes, the amount of new generation needed to bring the LOLE to the desired target of 0.1day/yr was determined. Instead of using a very precise looking number, such as 363MW for increased transfer limit from PJME to K, this limit was rounded up to 400 MW. Previous Case 4E was modified by increasing the PJME – K interface limit by 37 MW to 1060 MW (=1023+37). The calculated NYCA LOLE for this case is 0.15 days/year close the reliability criterion.

## 8 REFERENCES

- [1] 2009 Reliability Needs Assessment – Final Report, issued by the New York Independent System Operator, January 13, 2009.
- [2] New York State Transmission Assessment and Reliability Study (STARS) Phase 1 Study Report – “As Is” Transmission System. Report issued by ABB, January 13, 2010.
- [3] NYISO Transmission Expansion and Interconnection Manual, September 1999.

**APPENDIX A – SUB, MON AND CON FILES FOR SECURITY ANALYSIS**

## A.1 Subsystem Description File

### File STARS.sub

```
/
/ Sub file defines all the systems to be monitored in the mon file
/ and the generators to be used for transfers
/
COM ***** Added by ABB on March 12, 2009 *****

SUBSYSTEM 'NYCAHV'
  JOIN 'GROUP1'
    AREAS 1 11
    KVRANGE 100 999
  END
END

SUBSYSTEM 'ROS-HV'
  JOIN 'GROUP1'
    AREAS 1 9
    KVRANGE 100 999
  END
END

SUBSYSTEM 'CONED-HV'
  JOIN 'GROUP1'
    AREA 10
    KVRANGE 100 999
  END
END

SUBSYSTEM 'LIPA-HV'
  JOIN 'GROUP1'
    AREA 11
    KVRANGE 100 999
  END
END

COM *****

/ *** EXPORTS ***

subsystem ROS
  areas 1 9
end

subsystem 'NYCA-export'
  areas 1 11
  scale all for export include offline
end

subsystem 'ROS-export'
  areas 1 9
  scale all for export include offline
end

subsystem 'HQ-Cedres'
  area 107
end

subsystem 'NYCA-import'
  areas 1 11
  scale all for import
end

subsystem 'ROS-import'
  areas 1 9
  scale all for import
end
```



```

subsystem 'NYC'
  area 10
  scale all for import
end

subsystem 'LI'
  area 11
  scale all for import
end

subsystem 'Westch-load'
  areas 8 9
  scale all load
end

subsystem NE
  area 101
  scale all for export include offline
end

subsystem ONT
  area 103
  scale all for export include offline
end

subsystem PJM
  AREAS 25 237
  scale all for export include offline
END

subsystem A
  area 1
end
subsystem D
  area 4
end
subsystem I
  area 9
end
subsystem J
  area 10
end

subsystem K
  area 11
end

subsystem 'A_export'
  area 1
  scale all for export
end

subsystem 'B_export'
  area 2
  scale all for export
end

subsystem 'C_export'
  area 3
  scale all for export
end

subsystem 'D_export'
  area 4
  scale all for export
end

```

```

subsystem 'E_export'
  area 5
  scale all for export
end

subsystem 'F_export'
  area 6
  scale all for export
end

subsystem 'G_export'
  area 7
  scale all for export
end

subsystem 'H_export'
  area 8
  scale all for export
end

subsystem 'I_export'
  area 9
  scale all for export
end

subsystem 'J_export'
  area 10
  scale all for export
end

subsystem 'K_export'
  area 11
  scale all for export
end

SUBSYSTEM 'NY_exp'
  AREAS 1 11 / AREAS 1 THRU 11
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'NY_import' /
  AREAS 1 11 / AREAS 1 THRU 11
  SCALE ALL FOR IMPORT
END

SUBSYSTEM 'NY_exp_x-c' /
  AREAS 1 2
  AREAS 4 11
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'Ont-A_exp' /
  AREA 1
  AREA 103
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ab_exp' /
  AREAS 1 2 / AREAS 1 THRU 2
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'abc_exp' /
  AREAS 1 3 / AREAS 1 THRU 3
  SCALE ALL FOR EXPORT
END

```

```
SUBSYSTEM 'abcd_exp' /
  AREAS 1 4 / AREAS 1 THRU 4
  SCALE ALL FOR EXPORT
END
```

```
SUBSYSTEM 'abcde_exp' /
  AREAS 1 5 / AREAS 1 THRU 5
  SCALE ALL FOR EXPORT
END
```

```
SUBSYSTEM 'ef_exp'
  AREAS 5 6
  SCALE ALL FOR EXPORT
END
```

```
SUBSYSTEM 'abcdef_exp' /
  AREAS 1 6 / AREAS 1 THRU 6
  SCALE ALL FOR EXPORT
END
```

```
SUBSYSTEM 'abcdefg_exp'
  AREAS 1 7 / AREAS 1 THRU 6
  SCALE ALL FOR EXPORT
END
```

```
/ *** IMPORTS ***
```

```
subsystem 'NE_import'
  area 101
  scale all for import
end
```

```
subsystem 'A_import'
  area 1
  scale all for import
end
```

```
subsystem 'B_import'
  area 2
  scale all for import
end
```

```
subsystem 'C_import'
  area 3
  scale all for import
end
```

```
subsystem 'C_load'
  area 3
  scale all load
end
```

```
subsystem 'D_import'
  area 4
  scale all for import
end
```

```
subsystem 'E_import'
  area 5
  scale all for import
end
```

```
subsystem 'F_import'
  area 6
  scale all for import
```

```
end

subsystem 'G_import'
  area 7
  scale all for import
end

subsystem 'G_load'
  area 7
  scale all load
end

subsystem 'H_import'
  area 8
  scale all for import
end

subsystem 'h_load'
  area 8
  scale all load
end

subsystem 'i_load'
  area 9
  scale all load
end

subsystem 'J_import'
  area 10
  scale all for import
end

subsystem 'j_load'
  area 10
  scale all load
end

subsystem 'K_import'
  area 11
  scale all for import
end

subsystem 'k_load'
  area 11
  scale all load
end

subsystem 'GHI_import'
  areas 7 9
  scale all for import
end

subsystem 'GHI_load'
  areas 7 9
  scale all load
end

subsystem 'fg_import'
  areas 6 7
  scale all for import
end

subsystem 'fghi_import'
  areas 6 9
  scale all for import
end

subsystem 'fg_load'
  areas 6 7
  scale all load
end
```

```

subsystem 'fghi_load'
  areas 6 9
  scale all load
end

subsystem 'hi_import'
  areas 8 9
  scale all for import
end

subsystem 'hi_load'
  areas 8 9
  scale all load
end

subsystem 'hij_import'
  areas 8 10
  scale all for import
end

subsystem 'hij_load'
  areas 8 10
  scale all load
end

subsystem 'hijk_import'
  areas 8 11
  scale all for import
end

subsystem 'hijk_load'
  areas 8 11
  scale all load
end

subsystem 'SENY_import'
  areas 7 11
  scale all for import
end

subsystem 'SENY_load'
  areas 7 11
  scale all load
end

subsystem 'NYCA'
  areas 1 11
  scale all for import
end

subsystem 'NYHV'
  areas 1 11
end

SUBSYSTEM 'PJM_Market'
  AREAS 25 237
  AREA 345
  AREA 201
  AREA 205
  AREA 209
  AREA 215
  AREA 222
  SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

SUBSYSTEM 'PJM-classic'
  AREAS 25 237
  scale all for export include offline
END

```

```

subsystem 'HQChat-export'
  bus 180001 / 50.0 / beauharnois #8-14
  bus 180002 / 50.0 / beauharnois #1-7
  participate
    bus 180001 50.0 / beauharnois #8-14
    bus 180002 50.0 / beauharnois #1-7
  end
  scale all for export include offline
end

subsystem 'Cedres-export'
  bus 180005 / 80.0 / beauharnois #24-28
  bus 180905 / 20.0 / beauharnois #23
  participate
    bus 180005 80.0 / beauharnois #24-28
    bus 180905 20.0 / beauharnois #23
  end
  scale all for export include offline
end

system NewEngland
  area 101
  scale all for export include offline
end
system Ontario
  area 103
  scale all for export include offline
end
SYSTEM PJMClassic
  AREAS 25 237
  scale all for export include offline
END
system NewYork
  areas 1 11
  scale all for export include offline
end
system Quebec
  area 104
  area 107
end

SYSTEM 'RFC-MISO'
  AREA 202 /FE
  AREAS 206 210 / HE,DEM,DAYTON,SIGE,etc.
  AREAS 215 219 / IPL,NIPS,METC,ITC
  AREAS 356 361 / Ameren-MO,Ameren-IL,CWLP,CIL
  AREA 295 /WEC
  scale all for export include offline
END

SUBSYSTEM INERTIANYC
  PARTICIPATE
    SUBSYSTEM SCALE_NYC 100.00
  END
END

INCLUDE DB2008_INERTIA.sub

END / END FILE

```

## File DB2008\_INERTIA.sub

```
COM *****
COM *      SUBSYSTEMS FOR DEFAULT DISPATCH *
COM *****
SUBSYSTEM SCALE_WEST
  AREA 1
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_GENESSEE
  AREA 2
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_CENTRAL
  AREA 3
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NORTH
  AREA 4
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_MOHAWK
  AREA 5
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_CAPITAL
  AREA 6
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_HUDSON
  AREA 7
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_MILLWOOD
  AREA 8
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NYC
  AREA 10
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_LI
  AREA 11
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NEPOOL
  AREA 101
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_MARITIMES
  JOIN
  AREAS 105 106
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_IMO
  AREA 103
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_PJM_CLASSIC
  JOIN
  AREAS 225 237
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_PJM_WEST / PJM-WEST + MISO-E == R1st-PJM Classic
  JOIN
  AREAS 201 224
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
```

```

END
SUBSYSTEM SCALE_EASTERN_INT
JOIN
  AREAS 240 680
END
SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM INERTIA
PARTICIPATE
  SUBSYSTEM SCALE_WEST          0.74
  SUBSYSTEM SCALE_GENESSEE      0.11
  SUBSYSTEM SCALE_CENTRAL       0.21
  SUBSYSTEM SCALE_NORTH         0.13
  SUBSYSTEM SCALE_MOHAWK        0.15
  SUBSYSTEM SCALE_CAPITAL       0.49
  SUBSYSTEM SCALE_HUDSON        0.42
  SUBSYSTEM SCALE_MILLWOOD      0.20
  SUBSYSTEM SCALE_NYC           1.76
  SUBSYSTEM SCALE_LI            0.64
  SUBSYSTEM SCALE_NEPOOL        5.40
  SUBSYSTEM SCALE_MARITIMES     0.90
  SUBSYSTEM SCALE_IMO           5.50
  SUBSYSTEM SCALE_PJM_CLASSIC  10.00
  SUBSYSTEM SCALE_PJM_WEST      30.00
  SUBSYSTEM SCALE_EASTERN_INT  43.40
END
END

SUBSYSTEM INERTIANYC
PARTICIPATE
  SUBSYSTEM SCALE_NYC           100.00
END
END

END / End File

```



## A.2 Monitored Element File

### File STARS-Intact.mon

```
COM *****
COM * Added by ABB on March 12, 2009 considering specific bus voltage limits *
COM *****
```

```
COM *** FOR SYSTEM INTACT ANALYSIS, USE THE FOLLOWING VOLTAGE CRITERIA ***
MONITOR VOLTAGE RANGE SYSTEM NYCAGE230KV 0.98 1.05
MONITOR VOLTAGE RANGE SYSTEM NYCALT200KV 0.95 1.05
```

```
COM VOLTAGE CHECKS ON SPECIFIC BUSES PRELOW PREHIGH
MONITOR VOLTAGE RANGE BUS 126260 1.000 1.049 / Bowline 345
MONITOR VOLTAGE RANGE BUS 126262 1.003 1.049 / Buchanan 345
MONITOR VOLTAGE RANGE BUS 136150 1.000 1.049 / Clay 345
MONITOR VOLTAGE RANGE BUS 130750 0.980 1.049 / Coopers Corners 345
MONITOR VOLTAGE RANGE BUS 126266 1.003 1.049 / Dunwoodie 345
MONITOR VOLTAGE RANGE BUS 137200 1.006 1.049 / Edic 345
MONITOR VOLTAGE RANGE BUS 126277 0.980 1.049 / Farragut 345
MONITOR VOLTAGE RANGE BUS 130753 0.980 1.049 / Fraser 345
MONITOR VOLTAGE RANGE BUS 130762 0.943 1.052 / Gardenville 230
MONITOR VOLTAGE RANGE BUS 147831 1.009 1.049 / Gilboa 345
MONITOR VOLTAGE RANGE BUS 126283 0.980 1.049 / Goethals 345
MONITOR VOLTAGE RANGE BUS 126286 0.980 1.049 / Gowanus 345
MONITOR VOLTAGE RANGE BUS 126290 1.003 1.049 / Ladentown 345
MONITOR VOLTAGE RANGE BUS 137451 1.000 1.049 / Leeds 345
MONITOR VOLTAGE RANGE BUS 147833 1.009 1.049 / Marcy 345
MONITOR VOLTAGE RANGE BUS 126291 0.980 1.049 / Millwood 345
MONITOR VOLTAGE RANGE BUS 137452 1.009 1.049 / New Scotland 345
MONITOR VOLTAGE RANGE BUS 147841 0.978 1.052 / Niagara 230
MONITOR VOLTAGE RANGE BUS 147834 0.980 1.049 / Niagara 345
MONITOR VOLTAGE RANGE BUS 129341 0.978 1.051 / Northport 138
MONITOR VOLTAGE RANGE BUS 130755 0.974 1.049 / Oakdale 345
MONITOR VOLTAGE RANGE BUS 149001 0.988 1.041 / Pannell Road 345
MONITOR VOLTAGE RANGE BUS 126294 0.994 1.049 / Pleasant Valley 345
MONITOR VOLTAGE RANGE BUS 126295 0.980 1.049 / Rainey 345
MONITOR VOLTAGE RANGE BUS 126297 1.003 1.049 / Ramapo 345
MONITOR VOLTAGE RANGE BUS 126250 1.000 1.100 / Ramapo 500
MONITOR VOLTAGE RANGE BUS 125001 1.009 1.049 / Rock Tavern 345
MONITOR VOLTAGE RANGE BUS 125002 1.000 1.049 / Roseton 345
MONITOR VOLTAGE RANGE BUS 130754 0.980 1.049 / Somerset 345
MONITOR VOLTAGE RANGE BUS 126298 1.003 1.049 / Sprainbrook 345
MONITOR VOLTAGE RANGE BUS 149000 0.994 1.041 / Station 80 345
MONITOR VOLTAGE RANGE BUS 155073 0.978 1.052 / St.Lawrence 230
MONITOR VOLTAGE RANGE BUS 130768 0.935 1.052 / Watercure 230
```

```
COM *****
COM * End of voltage limits *
COM *****
```

```
COM ***** Edited by ABB *****
MONITOR BRANCHES IN SUBSYSTEM NYCAHV
MONITOR TIES FROM SYSTEM NYCAHV
COM *****
```

```
COM *****
COM * Copied from db2008_nyca-wind.mon for interfaces *
COM *****
COM Not included for thermal/voltage analysis
COM *****
COM * End of copy from db2008_nyca-wind.mon *
COM *****
```

```
COM *****
COM * Following commented by ABB *
COM *****
```

```
/
/ Rest of State
```

```
/      wind study task 5
/

COM MONITOR BRANCHES IN SUBSYSTEM ROS KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM NYC /      KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM LI /      KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM ONT /      KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM PJM /      KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM NYC TO SUBSYSTEM PJM /      KVRANGE 100 999
COM MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM NE /      KVRANGE 100 999
COM monitor ties from system Quebec to system NewYork

/ Monitor all NY interfaces

COM INCLUDE db2008_nyca-wind.mon

END / END FILE
```

# File STARS-Con.mon

```
COM *****
COM * Added by ABB on March 12, 2009 considering specific bus voltage limits *
COM *****

COM *** FOR SYSTEM CONTINGENCY ANALYSIS, USE THE FOLLOWING VOLTAGE CRITERIA ***
MONITOR VOLTAGE RANGE SYSTEM 'CONED-HV' 0.95 1.05
MONITOR VOLTAGE RANGE SYSTEM 'LIPA-HV' 0.90 1.10
MONITOR VOLTAGE RANGE SYSTEM 'ROS-HV' 0.90 1.10
MONITOR VOLTAGE DEVIATION SYSTEM 'NYCAHV' 0.10

COM VOLTAGE CHECKS ON SPECIFIC BUSES POSTLOW POSTHIGH
MONITOR VOLTAGE RANGE BUS 126260 0.951 1.049 / Bowline 345
MONITOR VOLTAGE RANGE BUS 126262 0.951 1.101 / Buchanan 345
MONITOR VOLTAGE RANGE BUS 136150 0.951 1.049 / Clay 345
MONITOR VOLTAGE RANGE BUS 130750 0.951 1.101 / Coopers Corners 345
MONITOR VOLTAGE RANGE BUS 126266 0.951 1.101 / Dunwoodie 345
MONITOR VOLTAGE RANGE BUS 137200 0.951 1.049 / Edic 345
MONITOR VOLTAGE RANGE BUS 126277 0.951 1.101 / Farragut 345
MONITOR VOLTAGE RANGE BUS 130753 0.951 1.101 / Fraser 345
MONITOR VOLTAGE RANGE BUS 130762 0.900 1.052 / Gardenville 230
MONITOR VOLTAGE RANGE BUS 147831 0.951 1.049 / Gilboa 345
MONITOR VOLTAGE RANGE BUS 126283 0.951 1.101 / Goethals 345
MONITOR VOLTAGE RANGE BUS 126286 0.951 1.101 / Gowanus 345
MONITOR VOLTAGE RANGE BUS 126290 0.951 1.101 / Ladentown 345
MONITOR VOLTAGE RANGE BUS 137451 0.951 1.078 / Leeds 345
MONITOR VOLTAGE RANGE BUS 147833 0.951 1.101 / Marcy 345
MONITOR VOLTAGE RANGE BUS 126291 0.951 1.101 / Millwood 345
MONITOR VOLTAGE RANGE BUS 137452 0.951 1.049 / New Scotland 345
MONITOR VOLTAGE RANGE BUS 147841 0.952 1.052 / Niagara 230
MONITOR VOLTAGE RANGE BUS 147834 0.951 1.049 / Niagara 345
MONITOR VOLTAGE RANGE BUS 129341 0.949 1.051 / Northport 138
MONITOR VOLTAGE RANGE BUS 130755 0.928 1.101 / Oakdale 345
MONITOR VOLTAGE RANGE BUS 149001 0.951 1.049 / Pannell Road 345
MONITOR VOLTAGE RANGE BUS 126294 0.951 1.101 / Pleasant Valley 345
MONITOR VOLTAGE RANGE BUS 126295 0.951 1.101 / Rainey 345
MONITOR VOLTAGE RANGE BUS 126297 0.951 1.101 / Ramapo 345
MONITOR VOLTAGE RANGE BUS 126250 1.000 1.150 / Ramapo 500
MONITOR VOLTAGE RANGE BUS 125001 0.951 1.049 / Rock Tavern 345
MONITOR VOLTAGE RANGE BUS 125002 0.951 1.049 / Roseton 345
MONITOR VOLTAGE RANGE BUS 130754 0.951 1.101 / Somerset 345
MONITOR VOLTAGE RANGE BUS 126298 0.951 1.101 / Sprainbrook 345
MONITOR VOLTAGE RANGE BUS 149000 0.951 1.049 / Station 80 345
MONITOR VOLTAGE RANGE BUS 155073 0.952 1.052 / St.Lawrence 230
MONITOR VOLTAGE RANGE BUS 130768 0.900 1.052 / Watercure 230

COM *****
COM * End of voltage limits *
COM *****

/
/ Rest of State
/ wind study task 5
/

MONITOR BRANCHES IN SUBSYSTEM NYHV KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM NYHV KVRANGE 100 999

MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM NYC / KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM LI / KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM ONT / KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM PJM / KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM NYC TO SUBSYSTEM PJM / KVRANGE 100 999
MONITOR TIES FROM SUBSYSTEM ROS TO SUBSYSTEM NE / KVRANGE 100 999
monitor ties from system Quebec to system NewYork

/ Monitor all NY interfaces

INCLUDE db2008_nyca-wind.mon
```

END / END FILE

### **A.3 Contingency Description File**

**CEII - Redacted from public version**

## **A.4 Excluded Monitored Facilities and Contingencies**

**CEII - Redacted from public version**

**APPENDIX B – DATA FILES FOR TRANSFER LIMIT ANALYSIS**



## B.1 Subsystem Description File

### File STARS-TTL.sub

```
/
/ Sub file defines all the systems to be monitored in the mon file
/ and the generators to be used for transfers
/
COM ***** Added by ABB on March 12, 2009 *****

SUBSYSTEM 'NYCAGE230KV'
  JOIN 'GROUP1'
    AREAS 1 11
    KVRANGE 200 999
  END
END

SUBSYSTEM 'NYCALT200KV'
  JOIN 'GROUP2'
    AREAS 1 11
    KVRANGE 100 199
  END
END

SUBSYSTEM 'NYCAHV'
  JOIN 'GROUP1'
    AREAS 1 11
    KVRANGE 100 999
  END
END

SUBSYSTEM 'ROS-HV'
  JOIN 'GROUP1'
    AREAS 1 9
    KVRANGE 100 999
  END
END

SUBSYSTEM 'CONED-HV'
  JOIN 'GROUP1'
    AREA 10
    KVRANGE 100 999
  END
END

SUBSYSTEM 'LIPA-HV'
  JOIN 'GROUP1'
    AREA 11
    KVRANGE 100 999
  END
END

COM ***** Added by ABB on March 17, 2009 *****
COM * Source/Sink for other interfaces have been defined by NYISO
COM *** Source for ConED-LIPA
SUBSYSTEM 'LIPA-SOR'
  BUS 126650          /* AK 3
  BUS 126659          /* COGENGT1
  BUS 126660          /* COGENGT2
  BUS 126664          /* COGENST1
  BUS 126653          /* AK 2
  BUS 126654          /* AST 3
  BUS 126657          /* RAV 1
  BUS 126658          /* RAV 2
  BUS 126656          /* AST 5
  BUS 125190          /* ROSE GN1
  BUS 146841          /* BOW1
PARTICIPATE
```



```

BUS 126650      0.1412    /* AK 3
BUS 126659      0.0706    /* COGENGT1
BUS 126660      0.0706    /* COGENGT2
BUS 126664      0.0683    /* COGENST1
BUS 126653      0.1338    /* AK 2
BUS 126654      0.0765    /* AST 3
BUS 126657      0.0395    /* RAV 1
BUS 126658      0.0408    /* RAV 2
BUS 126656      0.0586    /* AST 5
BUS 125190      0.2000    /* ROSE GN1
BUS 146841      0.1000    /* BOW1

END
END
COM *** Sink for ConED-LIPA
SUBSYSTEM 'LIPA-SINK'
BUS 129025              /* NRTPTG2
BUS 129026              /* NRTPTG3
BUS 129027              /* NRTPTG4
BUS 128900              /* BARETG1
PARTICIPATE
BUS 129025      0.2670    /* NRTPTG2
BUS 129026      0.2670    /* NRTPTG3
BUS 129027      0.2670    /* NRTPTG4
BUS 128900      0.2000    /* BARETG1

END
END
COM *** Source for Ontario-NY, also the sink for NY-Ontario
SUBSYSTEM 'ON-SOR-NY-SK'
BUS 155712              /* LENNOXG1
BUS 155713              /* LENNOXG2
BUS 155714              /* LENNOXG3
BUS 155715              /* LENNOXG4
BUS 159613              /* BRUCEAG1
BUS 159614              /* BRUCEAG2
BUS 159615              /* BRUCEAG3
BUS 151720              /* ATIKOKAN
BUS 158736              /* NANTICG1
BUS 158737              /* NANTICG2
BUS 158739              /* NANTICG4
PARTICIPATE
BUS 155712      0.0138    /* LENNOXG1
BUS 155713      0.0138    /* LENNOXG2
BUS 155714      0.0138    /* LENNOXG3
BUS 155715      0.0138    /* LENNOXG4
BUS 159613      0.2265    /* BRUCEAG1
BUS 159614      0.2956    /* BRUCEAG2
BUS 159615      0.0483    /* BRUCEAG3
BUS 151720      0.0877    /* ATIKOKAN
BUS 158736      0.1416    /* NANTICG1
BUS 158737      0.0725    /* NANTICG2
BUS 158739      0.0725    /* NANTICG4

END
END
COM *** Sink for Ontario-NY
SUBSYSTEM 'ONT-NY-SINK'
BUS 135391              /* DUNKGEN4
BUS 135801              /* HNTLY68G
BUS 136702              /* OSWEGO 5G
BUS 136703              /* OSWEGO 6G
BUS 125190              /* ROSE GN1
BUS 125192              /* ROSE GN2
BUS 146841              /* BOW1
BUS 126650              /* AK 3
BUS 126654              /* AST 3
BUS 126656              /* AST 5
BUS 126655              /* AST 4
BUS 126653              /* AK 2
BUS 137456              /* ATHENSC1
BUS 137458              /* ATHENSC2
PARTICIPATE

```

```

BUS 135391      0.0500    /* DUNGEN4
BUS 135801      0.0500    /* HNTLY68G
BUS 136702      0.1500    /* OSWEGO 5G
BUS 136703      0.1500    /* OSWEGO 6G
BUS 125190      0.1000    /* ROSE GN1
BUS 125192      0.1000    /* ROSE GN2
BUS 146841      0.1000    /* BOW1
BUS 126650      0.0900    /* AK 3
BUS 126654      0.0300    /* AST 3
BUS 126656      0.0300    /* AST 5
BUS 126655      0.0700    /* AST 4
BUS 126653      0.0300    /* AK 2
BUS 137456      0.0250    /* ATHENSC1
BUS 137458      0.0250    /* ATHENSC2

END
END
COM *** source for NY-Ontario
SUBSYSTEM 'NY-ONT-SOR'
    BUS 125190      /* ROSE GN1
    BUS 125192      /* ROSE GN2
    BUS 125193      /* DANSK G4
    BUS 125194      /* DANSK G3
    BUS 146841      /* BOW1
    BUS 126650      /* AK 3
    BUS 126654      /* AST 3
    BUS 126656      /* AST 5
    BUS 126653      /* AK 2
    BUS 137456      /* ATHENSC1
    BUS 137458      /* ATHENSC2
PARTICIPATE
    BUS 125190      0.3572    /* ROSE GN1
    BUS 125192      0.1565    /* ROSE GN2
    BUS 125193      0.0602    /* DANSK G4
    BUS 125194      0.0361    /* DANSK G3
    BUS 146841      0.1399    /* BOW1
    BUS 126650      0.0550    /* AK 3
    BUS 126654      0.0297    /* AST 3
    BUS 126656      0.0132    /* AST 5
    BUS 126653      0.0521    /* AK 2
    BUS 137456      0.0500    /* ATHENSC1
    BUS 137458      0.0500    /* ATHENSC2

END
END

COM *** Source for NE-NY, also the sink for NY-NE
SUBSYSTEM 'NE-SOR-NY-SK'
    BUS 101063      /* MYST G7
    BUS 101251      /* CANAL G1
    BUS 101252      /* CANAL G2
    BUS 102868      /* NWNGT
    BUS 103563      /* MILL#3
PARTICIPATE
    BUS 101063      0.2500    /* MYST G7
    BUS 101251      0.1500    /* CANAL G1
    BUS 101252      0.1500    /* CANAL G2
    BUS 102868      0.2500    /* NWNGT
    BUS 103563      0.2000    /* MILL#3

END
END

COM *****

/
/ Sub file defines all the systems to be monitored in the mon file
/ and the generators to be used for transfers
/

/ *** EXPORTS ***

subsystem ROS

```

```

    areas 1 9
end

subsystem 'NYCA-export'
    areas 1 11
    scale all for export include offline
end

subsystem 'ROS-export'
    areas 1 9
    scale all for export include offline
end

subsystem 'HQ-Cedres'
    area 107
end

subsystem 'NYCA-import'
    areas 1 11
    scale all for import
end

subsystem 'ROS-import'
    areas 1 9
    scale all for import
end

subsystem 'NYC'
    area 10
    scale all for import
end

subsystem 'LI'
    area 11
    scale all for import
end

subsystem 'Westch-load'
    areas 8 9
    scale all load
end

subsystem NE
    area 101
    scale all for export include offline
end

subsystem ONT
    area 103
    scale all for export include offline
end

COM subsystem PJM
COM AREAS 25 237
COM scale all for export include offline
COM END

subsystem PJM
AREA 25
AREA 26
AREA 31
AREA 237
scale all for export include offline
END

COM Exclude RECO load from subsystem PJM_Export
subsystem PJM_EXPORT
AREA 25
AREA 26
AREA 31
scale all for export include offline

```

```
END

COM Exclude RECO load from subsystem PJM_Import
subsystem PJM_Import
AREA 25
AREA 26
AREA 31
scale all for import include offline
END

subsystem A
  area 1
end
subsystem D
  area 4
end
subsystem E
  area 5
end
subsystem G
  area 7
end
subsystem I
  area 9
end
subsystem J
  area 10
end

subsystem K
  area 11
end

subsystem 'A_export'
  area 1
  scale all for export
end

subsystem 'B_export'
  area 2
  scale all for export
end

subsystem 'C_export'
  area 3
  scale all for export
end

subsystem 'D_export'
  area 4
  scale all for export
end

subsystem 'E_export'
  area 5
  scale all for export
end

subsystem 'F_export'
  area 6
  scale all for export
end

subsystem 'G_export'
  area 7
  scale all for export
```

```

end

subsystem 'H_export'
  area 8
  scale all for export
end

subsystem 'I_export'
  area 9
  scale all for export
end

subsystem 'J_export'
  area 10
  scale all for export
end

subsystem 'K_export'
  area 11
  scale all for export
end

SUBSYSTEM 'NY_exp'
  AREAS 1 11      / AREAS 1 THRU 11
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'NY_import' /
  AREAS 1 11      / AREAS 1 THRU 11
  SCALE ALL FOR IMPORT
END

SUBSYSTEM 'NY_exp_x-c' /
  AREAS 1 2
  AREAS 4 11
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'Ont-A_exp' /
  AREA 1
  AREA 103
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ab_exp' /
  AREAS 1 2      / AREAS 1 THRU 2
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ON-B_exp' /
  AREAS 1 2      / AREAS 1 THRU 2
  AREA 103
  SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

SUBSYSTEM 'abc_exp' /
  AREAS 1 3      / AREAS 1 THRU 3
  SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ON-C_exp' /
  AREAS 1 3      / AREAS 1 THRU 3
  AREA 103
  SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

SUBSYSTEM 'abcd_exp' /
  AREAS 1 4      / AREAS 1 THRU 4

```

```

SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ad_exp' /
AREA 1
AREA 4
SCALE ALL FOR EXPORT
END

SUBSYSTEM 'abcde_exp' /
AREAS 1 5 / AREAS 1 THRU 5
SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ON-E_exp' /
AREAS 1 5 / AREAS 1 THRU 5
AREA 103
SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

SUBSYSTEM 'ef_exp'
AREAS 5 6
SCALE ALL FOR EXPORT
END

SUBSYSTEM 'abcdef_exp' /
AREAS 1 6 / AREAS 1 THRU 6
SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ON-F_exp' /
AREAS 1 6 / AREAS 1 THRU 6
AREA 103
SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

SUBSYSTEM 'abcdefg_exp'
AREAS 1 7 / AREAS 1 THRU 6
SCALE ALL FOR EXPORT
END

SUBSYSTEM 'ON-G_exp'
AREAS 1 7 / AREAS 1 THRU 6
AREA 103
SCALE ALL FOR EXPORT INCLUDE OFFLINE
END

/ *** IMPORTS ***

subsystem 'NE_import'
area 101
scale all for import
end

subsystem 'A_import'
area 1
scale all for import
end

subsystem 'B_import'
area 2
scale all for import
end

subsystem 'C_import'
area 3
scale all for import
end

subsystem 'C_load'
area 3

```

```

        scale all load
end

subsystem 'D_import'
    area 4
    scale all for import
end

subsystem 'E_import'
    area 5
    scale all for import
end

subsystem 'F_import'
    area 6
    scale all for import
end

subsystem 'G_import'
    area 7
    scale all for import
end

subsystem 'G_load'
    area 7
    scale all load
end

subsystem 'H_import'
    area 8
    scale all for import
end

subsystem 'h_load'
    area 8
    scale all load
end

subsystem 'i_load'
    area 9
    scale all load
end

subsystem 'J_import'
    area 10
    scale all for import
end

subsystem 'j_load'
    area 10
    scale all load
end

subsystem 'K_import'
    area 11
    scale all for import
end

subsystem 'JK_import'
    areas 10 11
    scale all for import
end

subsystem 'k_load'
    area 11
    scale all load
end

subsystem 'GHI_export'
    areas 7 9
    scale all for export

```

```

end

subsystem 'GHI_import'
  areas 7 9
  scale all for import
end

subsystem 'GHI_load'
  areas 7 9
  scale all load
end

subsystem 'fg_import'
  areas 6 7
  scale all for import
end

subsystem 'fghi_import'
  areas 6 9
  scale all for import
end

subsystem 'fg_load'
  areas 6 7
  scale all load
end

subsystem 'fghi_load'
  areas 6 9
  scale all load
end

subsystem 'hi_import'
  areas 8 9
  scale all for import
end

subsystem 'hi_load'
  areas 8 9
  scale all load
end

subsystem 'hij_import'
  areas 8 10
  scale all for import
end

subsystem 'hij_load'
  areas 8 10
  scale all load
end

subsystem 'hijk_import'
  areas 8 11
  scale all for import
end

subsystem 'hijk_load'
  areas 8 11
  scale all load
end

subsystem 'SENY_import'
  areas 7 11
  scale all for import
end

subsystem 'SENY_load'
  areas 7 11
  scale all load
end

```



```

subsystem 'NYCA'
  areas 1 11
  scale all for import
end

com *** Ontario_Import added by ABB ***
system Ontario_Import
  area 103
  scale all for import include offline
end

subsystem 'NYHV'
  areas 1 11
end

COM SUBSYSTEM PJM_Market COMMENTED BY ABB 03/31/2009
COM SUBSYSTEM 'PJM_Market'
COM AREAS 25 237
COM AREA 345
COM AREA 201
COM AREA 205
COM AREA 209
COM AREA 215
COM AREA 222
COM SCALE ALL FOR EXPORT INCLUDE OFFLINE
COM END

COM SUBSYSTEM PJM-CLASSIC COMMENTED BY ABB 03/31/2009
COM SUBSYSTEM 'PJM-classic'
COM AREAS 25 237
COM scale all for export include offline
COM END

subsystem 'HQChat-export'
  bus 180001 / 50.0 / beauharnois #8-14
  bus 180002 / 50.0 / beauharnois #1-7
  participate
  bus 180001 50.0 / beauharnois #8-14
  bus 180002 50.0 / beauharnois #1-7
  end
  scale all for export include offline
end

subsystem 'Cedres-export'
  bus 180005 / 80.0 / beauharnois #24-28
  bus 180905 / 20.0 / beauharnois #23
  participate
  bus 180005 80.0 / beauharnois #24-28
  bus 180905 20.0 / beauharnois #23
  end
  scale all for export include offline
end

system NewEngland
  area 101
  scale all for export include offline
end
system Ontario_Export
  area 103
  scale all for export include offline
end
system NewYork
  areas 1 11
  scale all for export include offline
end
system Quebec
  area 104
  area 107
end

```

```
SYSTEM 'RFC-MISO'  
  AREA 202      /FE  
  AREAS 206 210 / HE,DEM,DAYTON,SIGE,etc.  
  AREAS 215 219      / IPL,NIPS,METC,ITC  
  AREAS 356 361 / Ameren-MO,Ameren-IL,CWLP,CIL  
  AREA 295      /WEC  
  scale all for export include offline  
END  
  
subsystem 'PENELEC_EXPORT'  
  area 26  
  scale all for export  
end  
  
subsystem 'PENELEC_IMPORT'  
  area 26  
  scale all for import  
end  
  
subsystem 'HOMER_CY'  
  bus 601  
  bus 602  
  bus 603  
  participate  
  bus 601 33.3  
  bus 602 33.3  
  bus 603 33.3  
end  
end  
  
      INCLUDE DB2008_INERTIA.sub  
  
END      / END FILE
```

## File DB2008\_INERTIA.sub

```
COM *****
COM *      SUBSYSTEMS FOR DEFAULT DISPATCH      *
COM *****
SUBSYSTEM SCALE_WEST
  AREA 1
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_GENESSEE
  AREA 2
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_CENTRAL
  AREA 3
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NORTH
  AREA 4
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_MOHAWK
  AREA 5
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_CAPITAL
  AREA 6
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_HUDSON
  AREA 7
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_MILLWOOD
  AREA 8
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NYC
  AREA 10
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_LI
  AREA 11
  SCALE ALL GENERATION WITH PMAX GREATER 50 MW
END
SUBSYSTEM SCALE_NEPOOL
  AREA 101
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_MARITIMES
  JOIN
  AREAS 105 106
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_IMO
  AREA 103
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_PJM_CLASSIC
  JOIN
  AREAS 225 237
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM SCALE_PJM_WEST / PJM-WEST + MISO-E == R1st-PJM Classic
  JOIN
  AREAS 201 224
  END
  SCALE ALL GENERATION WITH PMAX GREATER 100 MW
```

```

END
SUBSYSTEM SCALE_EASTERN_INT
JOIN
  AREAS 240 680
END
SCALE ALL GENERATION WITH PMAX GREATER 100 MW
END
SUBSYSTEM INERTIA
PARTICIPATE
SUBSYSTEM SCALE_WEST          0.74
SUBSYSTEM SCALE_GENESSEE      0.11
SUBSYSTEM SCALE_CENTRAL       0.21
SUBSYSTEM SCALE_NORTH         0.13
SUBSYSTEM SCALE_MOHAWK        0.15
SUBSYSTEM SCALE_CAPITAL       0.49
SUBSYSTEM SCALE_HUDSON        0.42
SUBSYSTEM SCALE_MILLWOOD      0.20
SUBSYSTEM SCALE_NYC           1.76
SUBSYSTEM SCALE_LI            0.64
SUBSYSTEM SCALE_NEPOOL        5.40
SUBSYSTEM SCALE_MARITIMES     0.90
SUBSYSTEM SCALE_IMO           5.50
SUBSYSTEM SCALE_PJM_CLASSIC   10.00
SUBSYSTEM SCALE_PJM_WEST      30.00
SUBSYSTEM SCALE_EASTERN_INT   43.40
END
END

SUBSYSTEM INERTIANYC
PARTICIPATE
SUBSYSTEM SCALE_NYC           100.00
END
END

END / End File

```

## B.2 Monitored Element File

### File STARS-TTL.mon

```
COM ***** Edited by ABB *****
MONITOR BRANCHES IN SUBSYSTEM NYCAHV
MONITOR TIES FROM SYSTEM NYCAHV
```

```
COM *** FOR SYSTEM CONTINGENCY ANALYSIS, USE THE FOLLOWING VOLTAGE CRITERIA ***
MONITOR VOLTAGE RANGE SYSTEM NYCAGE230KV 0.95 1.10
MONITOR VOLTAGE RANGE SYSTEM NYCALT200KV 0.90 1.10
```

```
COM VOLTAGE CHECKS ON SPECIFIC BUSES POSTLOW POSTHIGH
MONITOR VOLTAGE RANGE BUS 126260 0.951 1.049 / Bowline 345
MONITOR VOLTAGE RANGE BUS 126262 0.951 1.101 / Buchanan 345
MONITOR VOLTAGE RANGE BUS 136150 0.951 1.049 / Clay 345
MONITOR VOLTAGE RANGE BUS 130750 0.951 1.101 / Coopers Corners 345
MONITOR VOLTAGE RANGE BUS 126266 0.951 1.101 / Dunwoodie 345
MONITOR VOLTAGE RANGE BUS 137200 0.951 1.049 / Edic 345
MONITOR VOLTAGE RANGE BUS 126277 0.951 1.101 / Farragut 345
MONITOR VOLTAGE RANGE BUS 130753 0.951 1.101 / Fraser 345
MONITOR VOLTAGE RANGE BUS 130762 0.900 1.052 / Gardenville 230
MONITOR VOLTAGE RANGE BUS 147831 0.951 1.049 / Gilboa 345
MONITOR VOLTAGE RANGE BUS 126283 0.951 1.101 / Goethals 345
MONITOR VOLTAGE RANGE BUS 126286 0.951 1.101 / Gowanus 345
MONITOR VOLTAGE RANGE BUS 126290 0.951 1.101 / Ladentown 345
MONITOR VOLTAGE RANGE BUS 137451 0.951 1.078 / Leeds 345
MONITOR VOLTAGE RANGE BUS 147833 0.951 1.101 / Marcy 345
MONITOR VOLTAGE RANGE BUS 126291 0.951 1.101 / Millwood 345
MONITOR VOLTAGE RANGE BUS 137452 0.951 1.049 / New Scotland 345
MONITOR VOLTAGE RANGE BUS 147841 0.952 1.052 / Niagara 230
MONITOR VOLTAGE RANGE BUS 147834 0.951 1.049 / Niagara 345
MONITOR VOLTAGE RANGE BUS 129341 0.949 1.051 / Northport 138
MONITOR VOLTAGE RANGE BUS 130755 0.928 1.101 / Oakdale 345
MONITOR VOLTAGE RANGE BUS 149001 0.951 1.049 / Pannell Road 345
MONITOR VOLTAGE RANGE BUS 126294 0.951 1.101 / Pleasant Valley 345
MONITOR VOLTAGE RANGE BUS 126295 0.951 1.101 / Rainey 345
MONITOR VOLTAGE RANGE BUS 126297 0.951 1.101 / Ramapo 345
MONITOR VOLTAGE RANGE BUS 126250 1.000 1.150 / Ramapo 500
MONITOR VOLTAGE RANGE BUS 125001 0.951 1.049 / Rock Tavern 345
MONITOR VOLTAGE RANGE BUS 125002 0.951 1.049 / Roseton 345
MONITOR VOLTAGE RANGE BUS 130754 0.951 1.101 / Somerset 345
MONITOR VOLTAGE RANGE BUS 126298 0.951 1.101 / Sprainbrook 345
MONITOR VOLTAGE RANGE BUS 149000 0.951 1.049 / Station 80 345
MONITOR VOLTAGE RANGE BUS 155073 0.952 1.052 / St.Lawrence 230
MONITOR VOLTAGE RANGE BUS 130768 0.900 1.052 / Watercure 230
```

```
COM *****
COM * End of voltage limits *
COM *****
```

```
COM *****
```

```
/ Monitor all NY interfaces
```

```
INCLUDE db2008_nyca-wind-ABB.mon
```

```
COM *****
COM * Following interfaces added by ABB *
COM *****
```

```
MONITOR INTERFACE 'CE+Fras-gilb' /
MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1
MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC 345 N.SCOT77 345} 1
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTRDM.2 230} 1
REPLACED BY PROJECT NO. 186
MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTRDM.2 230} 1
PROJECT NO. 186
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTRDM.2 230} 2
MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1
```

MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1  
 / MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1 /  
 (ABB: Commented out per Larry Eng e-mail dated 4.23.09)  
 MONITOR BRANCH FROM BUS 130753 TO BUS 147831 CKT 1 / FRASR345 345 GILB 345 345, Copied  
 from NYISO: INTFLW-08.DAT  
 END

COM \*\*\* Last 3 lines Copied from NYISO: INTFLW-08.DAT

MONITOR INTERFACE 'CE-GROUP' /  
 MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1  
 MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC 345 N.SCOT77 345} 1  
 MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTFRDM.2 230} 1  
 REPLACED BY PROJECT NO. 186  
 MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTFRDM.2 230} 1  
 PROJECT NO. 186  
 MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTFRDM.2 230} 2  
 MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1  
 MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1  
 / MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1 /  
 (ABB: Commented out per Larry Eng e-mail dated 4.23.09)  
 MONITOR BRANCH FROM BUS 130753 TO BUS 147831 CKT 1 / FRASR345 345 GILB 345 345,  
 MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCKTAV 345 REPLACED  
 BY CALPINE WAWAYANDA  
 MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 SHOEMTAP 345  
 END

COM \*\*\* Copied from NYISO: INTFLW-08.DAT Or Ties from Area F(6) to Area G(7)

MONITOR INTERFACE 'F-To-G' /  
 MONITOR BRANCH FROM BUS 137451 TO BUS 125000 CKT 1 / LEEDS 3 345 HURLEY 3 345  
 MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 2 / LEEDS 3 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137455 TO BUS 126294 CKT 1 / ATHENS 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137480 TO BUS 125043 CKT 1 / ADM 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137489 TO BUS 125043 CKT 1 / BL STR 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137492 TO BUS 125043 CKT 1 / BLUES-8 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 1 / AIRCO-2T 115 N.CAT. 1 115 REPLACES  
 JMC-PH2B N.CAT IN 1994  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 2 / AIRCO-2T 115 N.CAT. 1 115 REPLACES  
 JMC-PH2B N.CAT IN 1994  
 END

MONITOR INTERFACE 'MLWD-SOUTH-C' / Millwood South Closed

MONITOR BRANCH FROM BUS 4989 TO BUS 126278 CKT 1 / HUDSON-1 345 FARRGUT1 345  
 MONITOR BRANCH FROM BUS 4996 TO BUS 126321 CKT 1 / LINDEN 9 230 GOETHALS 230  
 MONITOR BRANCH FROM BUS 5039 TO BUS 126279 CKT 1 / HUDSON-2 345 FARRGUT2 345  
 MONITOR BRANCH FROM BUS 103166 TO BUS 129343 CKT 1 / NOR HBR 138 NRTHPT P 138  
 MONITOR BRANCH FROM BUS 128880 TO BUS 129459 CKT 1 / SHMHVDCL 192 SHOREHAM 138  
 MONITOR BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / BUCH N 345 E VIEW1 345  
 MONITOR BRANCH FROM BUS 126281 TO BUS 126292 CKT 1 / FISHKILL 345 PL VILLE 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126268 CKT 1 / MILLWOOD 345 E VIEW2 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126269 CKT 1 / MILLWOOD 345 E VIEW3 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126270 CKT 1 / MILLWOOD 345 E VIEW4 345  
 MONITOR BRANCH FROM BUS 126305 TO BUS 126293 CKT 1 / WOOD A 345 PL VILLW 345  
 END

MONITOR INTERFACE 'NY-ONT' /

MONITOR TIES FROM SYSTEM NYCA TO SYSTEM ONT  
 MONITOR BRANCH FROM BUS 147839 TO BUS 155072 CKT 1 / Moses-St.Lawrence 230 Ckt 1  
 MONITOR BRANCH FROM BUS 147839 TO BUS 155073 CKT 1 / Moses-St.Lawrence 230 Ckt 2  
 END

MONITOR INTERFACE 'NY-PJM' /

MONITOR TIES FROM SYSTEM NewYork TO SYSTEM PJM  
 com MONITOR BRANCH FROM BUS 128847 TO BUS 128842 CKT 1 / NWBRG 345 NEPTCONV 345 (MUST does not  
 recognize HVdc branch)  
 END

MONITOR INTERFACE 'ONT-NY' /

MONITOR TIES FROM SYSTEM ONT TO SYSTEM NYCA  
 MONITOR BRANCH FROM BUS 155072 TO BUS 147839 CKT 1 / St.Lawrence-Moses 230 Ckt 1  
 MONITOR BRANCH FROM BUS 155073 TO BUS 147839 CKT 1 / St.Lawrence-Moses 230 Ckt 2  
 END

```

MONITOR INTERFACE 'ZoneA-ONT' /
MONITOR TIES FROM SYSTEM A TO SYSTEM ONT
END

MONITOR INTERFACE 'ONT-ZoneA' /
MONITOR TIES FROM SYSTEM ONT TO SYSTEM A
END

MONITOR INTERFACE 'ZoneD-ONT' /
MONITOR BRANCH FROM BUS 147839 TO BUS 155072 CKT 1 / Moses-St.Lawrence 230 Ckt 1
MONITOR BRANCH FROM BUS 147839 TO BUS 155073 CKT 1 / Moses-St.Lawrence 230 Ckt 2
END

MONITOR INTERFACE 'ONT-ZoneD' /
MONITOR BRANCH FROM BUS 155072 TO BUS 147839 CKT 1 / St.Lawrence-Moses 230 Ckt 1
MONITOR BRANCH FROM BUS 155073 TO BUS 147839 CKT 1 / St.Lawrence-Moses 230 Ckt 2
END

MONITOR INTERFACE 'I-to-K'
MONITOR BRANCH FROM BUS 126299 TO BUS 147857 CKT 1 / REACBUS 345 - DVNPT NK 345 Ckt 1
(Sprainbrook - East Garden City 345)
MONITOR BRANCH FROM BUS 126266 TO BUS 128835 CKT 1 / Dunwoodie - Shore Road 345 Ckt 1
END

MONITOR INTERFACE 'K-to-I'
MONITOR BRANCH FROM BUS 147857 TO BUS 126299 CKT 1 / DVNPT NK 345 - REACBUS 345 Ckt 1 (East
Garden City - Sprainbrook 345)
MONITOR BRANCH FROM BUS 128835 TO BUS 126266 CKT 1 / Shore Road-Dunwoodie 345 Ckt 1
END

MONITOR INTERFACE 'J-to-K'
MONITOR BRANCH FROM BUS 126455 TO BUS 129235 CKT 1 / Jamaica - V STRM P 138 Ckt 1
MONITOR BRANCH FROM BUS 126455 TO BUS 129249 CKT 1 / Jamaica - L SUCSPH 138 Ckt 1
END

MONITOR INTERFACE 'K-to-J'
MONITOR BRANCH FROM BUS 129235 TO BUS 126455 CKT 1 / V STRM P - Jamaica 138 Ckt 1
MONITOR BRANCH FROM BUS 129249 TO BUS 126455 CKT 1 / L SUCSPH - Jamaica 138 Ckt 1
END

MONITOR INTERFACE 'A-PJMWest'
MONITOR BRANCH FROM BUS 135398 TO BUS 200769 CKT 1 / 135398 SW345 345.00 200769 HOMER
CY 345.00* 1 (SW - Homer City 345)
MONITOR BRANCH FROM BUS 135251 TO BUS 200654 CKT 1 / 135251 S RIPLEY 230.00 200654 ERIE E
230.00* 1 (S.Ripley - Erie East 230)
MONITOR BRANCH FROM BUS 135277 TO BUS 200579 CKT 1 / 135277 FALCONER 115.00 200579 WARREN
115.00* 1 (Falconer-Warren 115)
END

MONITOR INTERFACE 'PJMWest-A'
MONITOR BRANCH FROM BUS 200769 TO BUS 135398 CKT 1 / 200769 HOMER CY 345.00* 135398 SW345
345.00 1 (Homer City - SW 345)
MONITOR BRANCH FROM BUS 200654 TO BUS 135251 CKT 1 / 200654 ERIE E 230.00* 135251 S
RIPLEY 230.00 1 (Erie East - S.Ripley 230)
MONITOR BRANCH FROM BUS 200579 TO BUS 135277 CKT 1 / 200579 WARREN 115.00* 135277
FALCONER 115.00 1 (Warren-Falconer 115)
END

MONITOR INTERFACE 'C-PJMWest'
MONITOR BRANCH FROM BUS 130757 TO BUS 200769 CKT 1 / 130757 WATRC345 345.00 200769 HOMER
CY 345.00* 1
/ MONITOR BRANCH FROM BUS 130763 TO BUS 200675 CKT 1 / 130763 HILSD230 230.00 200675
E.TWANDA 230.00* 1
/ MONITOR BRANCH FROM BUS 130807 TO BUS 200680 CKT 1 / 130807 GOUDY115 115.00* 200680
LAUREL L 115.00 1
/ MONITOR BRANCH FROM BUS 130836 TO BUS 200676 CKT 1 / 130836 N.WAV115 115.00* 200676
E.SAYRE 115.00 1
END

MONITOR INTERFACE 'PJMWest-C'

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MONITOR BRANCH FROM BUS 200769 TO BUS 130757 CKT 1 / 200769 HOMER CY 345.00\* 130757  
 WATRC345 345.00 1  
 / MONITOR BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 / 200675 E.TWANDA 230.00\* 130763  
 HILSD230 230.00 1  
 / MONITOR BRANCH FROM BUS 200680 TO BUS 130807 CKT 1 / 200680 LAUREL L 115.00 130807  
 GOUDY115 115.00\* 1  
 / MONITOR BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / 200676 E.SAYRE 115.00 130836  
 N.WAV115 115.00\* 1  
 END

MONITOR INTERFACE 'C-PJMCentral'  
 MONITOR BRANCH FROM BUS 130763 TO BUS 200675 CKT 1 / 130763 HILSD230 230.00 200675  
 E.TWANDA 230.00\* 1  
 MONITOR BRANCH FROM BUS 130807 TO BUS 200680 CKT 1 / 130807 GOUDY115 115.00\* 200680 LAUREL  
 L 115.00 1  
 MONITOR BRANCH FROM BUS 130836 TO BUS 200676 CKT 1 / 130836 N.WAV115 115.00\* 200676  
 E.SAYRE 115.00 1  
 END

MONITOR INTERFACE 'PJMCentral-C'  
 MONITOR BRANCH FROM BUS 200675 TO BUS 130763 CKT 1 / 200675 E.TWANDA 230.00\* 130763  
 HILSD230 230.00 1  
 MONITOR BRANCH FROM BUS 200680 TO BUS 130807 CKT 1 / 200680 LAUREL L 115.00 130807  
 GOUDY115 115.00\* 1  
 MONITOR BRANCH FROM BUS 200676 TO BUS 130836 CKT 1 / 200676 E.SAYRE 115.00 130836  
 N.WAV115 115.00\* 1  
 END

MONITOR INTERFACE 'G-PJMEast'  
 MONITOR BRANCH FROM BUS 126250 TO BUS 91 CKT 1 / 126250 RAMAPO 5 500.00\* 91  
 JEFFERSN 500.00 1  
 MONITOR BRANCH FROM BUS 146752 TO BUS 5028 CKT 1 / 146752 SMAHWAH1 345.00 5028  
 WALDWICK 345.00\* 1  
 MONITOR BRANCH FROM BUS 146753 TO BUS 5028 CKT 1 / 146753 SMAHWAH2 345.00 5028  
 WALDWICK 345.00\* 1  
 END

MONITOR INTERFACE 'PJMEast-G'  
 MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 / 91 JEFFERSN 500.00 126250 RAMAPO  
 5 500.00\* 1  
 MONITOR BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 / 5028 WALDWICK 345.00\* 146752  
 SMAHWAH1 345.00 1  
 MONITOR BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 / 5028 WALDWICK 345.00\* 146753  
 SMAHWAH2 345.00 1  
 END

MONITOR INTERFACE 'PJME-NYE'  
 MONITOR BRANCH FROM BUS 5039 TO BUS 126279 CKT 1 /\* HUDSON2 345 C3403 PAR2  
 345 1  
 MONITOR BRANCH FROM BUS 4989 TO BUS 126278 CKT 1 /\* HUDSON1 345 B3402 PAR1  
 345 1  
 MONITOR BRANCH FROM BUS 4996 TO BUS 126321 CKT 1 /\* LINDEN 230 GOETHALS  
 230 1  
 / MONITOR BRANCH FROM BUS 5473 TO BUS 126265 CKT 1 /\* LINVFT4 345 COGNTECH  
 345 1  
 MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 /\* JEFFERSN 500 RAMAPO 5  
 500 1  
 MONITOR BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 /\* WALDWICK 345 SMAHWAH1  
 345 1  
 MONITOR BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 /\* WALDWICK 345 SMAHWAH2  
 345 1  
 MONITOR BRANCH FROM BUS 9814 TO BUS 146807 CKT 1 /\* CRESSKIL 69.0 SPARKILL  
 69.0 1  
 MONITOR BRANCH FROM BUS 9808 TO BUS 146812 CKT 1 /\* HCOR69 69.0 WNYA69  
 69.0 1  
 MONITOR BRANCH FROM BUS 9803 TO BUS 146761 CKT 1 /\* HCOR138 138 BURNS138  
 138 1  
 MONITOR BRANCH FROM BUS 9809 TO BUS 146777 CKT 1 /\* MONTVALE 69.0 BLUHILL  
 69.0 1



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MONITOR BRANCH FROM BUS      9809 TO BUS 146777 CKT 2      /* MONTVALE      69.0  BLUHILL
69.0 2
MONITOR BRANCH FROM BUS      9809 TO BUS 146850 CKT 1      /* MONTVALE      69.0  L491T
69.0 1
MONITOR BRANCH FROM BUS      9811 TO BUS 146826 CKT 1      /* HCOR34        34.5  PEARL34
34.5 1
MONITOR BRANCH FROM BUS      9804 TO BUS 146769 CKT 1      /* SMAH138        138   RAMP138
138 1
MONITOR BRANCH FROM BUS      9810 TO BUS 146790 CKT 1      /* SMAH69         69.0  HILB69
69.0 1
MONITOR BRANCH FROM BUS      9804 TO BUS 146752 CKT 1      /* SMAH138        138   SMAHWAH1
345 1
/ does not include Neptune HVDC
END

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MONITOR INTERFACE 'NYE-PJME'
MONITOR BRANCH FROM BUS      126279 TO BUS 5039 CKT 1      /* HUDSON2        345   C3403 PAR2   345
1
MONITOR BRANCH FROM BUS      126278 TO BUS 4989 CKT 1      /* HUDSON1        345   B3402 PAR1   345
1
MONITOR BRANCH FROM BUS      126321 TO BUS 4996 CKT 1      /* LINDEN         230   GOETHALS     230
/
MONITOR BRANCH FROM BUS      126265 TO BUS 5473 CKT 1      /* LINVFT4        345   COGNTECH
345 1
MONITOR BRANCH FROM BUS      126250 TO BUS 91 CKT 1         /* JEFFERSN       500   RAMAPO 5     500
1
MONITOR BRANCH FROM BUS      146752 TO BUS 5028 CKT 1      /* WALDWICK       345   SMAHWAH1    345
1
MONITOR BRANCH FROM BUS      146753 TO BUS 5028 CKT 1      /* WALDWICK       345   SMAHWAH2    345
1
MONITOR BRANCH FROM BUS      146807 TO BUS 9814 CKT 1      /* CRESSKIL      69.0   SPARKILL    69.0
1
MONITOR BRANCH FROM BUS      146812 TO BUS 9808 CKT 1      /* HCOR69         69.0   WNYA69     69.0
1
MONITOR BRANCH FROM BUS      146761 TO BUS 9803 CKT 1      /* HCOR138        138   BURNS138    138
1
MONITOR BRANCH FROM BUS      146777 TO BUS 9809 CKT 1      /* MONTVALE      69.0   BLUHILL     69.0
1
MONITOR BRANCH FROM BUS      146777 TO BUS 9809 CKT 2      /* MONTVALE      69.0   BLUHILL     69.0
2
MONITOR BRANCH FROM BUS      146850 TO BUS 9809 CKT 1      /* MONTVALE      69.0   L491T       69.0
1
MONITOR BRANCH FROM BUS      146826 TO BUS 9811 CKT 1      /* HCOR34        34.5   PEARL34    34.5
1
MONITOR BRANCH FROM BUS      146769 TO BUS 9804 CKT 1      /* SMAH138        138   RAMP138    138
1
MONITOR BRANCH FROM BUS      146790 TO BUS 9810 CKT 1      /* SMAH69         69.0   HILB69     69.0
1
MONITOR BRANCH FROM BUS      146752 TO BUS 9804 CKT 1      /* SMAH138        138   SMAHWAH1    345
1
/ does not include Neptune HVDC
END

```

```

MONITOR INTERFACE 'PJME-NYEnoRECO'
MONITOR BRANCH FROM BUS      5039 TO BUS 126279 CKT 1      /* HUDSON2        345   C3403 PAR2
345 1
MONITOR BRANCH FROM BUS      4989 TO BUS 126278 CKT 1      /* HUDSON1        345   B3402 PAR1
345 1
MONITOR BRANCH FROM BUS      4996 TO BUS 126321 CKT 1      /* LINDEN         230   GOETHALS
230 1
MONITOR BRANCH FROM BUS      5473 TO BUS 126265 CKT 1      /* LINVFT4        345   COGNTECH
345 1
MONITOR BRANCH FROM BUS      91 TO BUS 126250 CKT 1         /* JEFFERSN       500   RAMAPO 5
500 1
MONITOR BRANCH FROM BUS      5028 TO BUS 146752 CKT 1      /* WALDWICK       345   SMAHWAH1
345 1
MONITOR BRANCH FROM BUS      5028 TO BUS 146753 CKT 1      /* WALDWICK       345   SMAHWAH2
345 1
/ does not include Neptune HVDC or RECO
END

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MONITOR INTERFACE 'NYE-PJMENoRECO'
MONITOR BRANCH FROM BUS 126279 TO BUS 5039 CKT 1 /* HUDSON2 345 C3403 PAR2 345
1
MONITOR BRANCH FROM BUS 126278 TO BUS 4989 CKT 1 /* HUDSON1 345 B3402 PAR1 345
1
MONITOR BRANCH FROM BUS 126321 TO BUS 4996 CKT 1 /* LINDEN 230 GOETHALS 230
1
MONITOR BRANCH FROM BUS 126265 TO BUS 5473 CKT 1 /* LINVFT4 345 COGNTECH 345
1
MONITOR BRANCH FROM BUS 126250 TO BUS 91 CKT 1 /* JEFFERSN 500 RAMAPO 5 500
1
MONITOR BRANCH FROM BUS 146752 TO BUS 5028 CKT 1 /* WALDWICK 345 SMAHWAH1 345
1
MONITOR BRANCH FROM BUS 146753 TO BUS 5028 CKT 1 /* WALDWICK 345 SMAHWAH2 345
1
/ does not include Neptune HVDC or RECO
END

MONITOR INTERFACE 'MarcySouth'
MONITOR TIES FROM SYSTEM E TO SYSTEM G
END

MONITOR INTERFACE 'LIPA Export' /
MONITOR BRANCH FROM BUS 128835 TO BUS 126266 CKT 1 / 5000 SHORE RD 345 4316* DUNWODIE 345
1
MONITOR BRANCH FROM BUS 129249 TO BUS 126455 CKT 1 / 5047 L SUCSPH 138 4505* JAMAICA 138
1
MONITOR BRANCH FROM BUS 129235 TO BUS 126455 CKT 1 / 5067 V STRM P 138 4505* JAMAICA 138
1
MONITOR BRANCH FROM BUS 129343 TO BUS 103166 CKT 1 / NRTHPT P 138 NOR HBR 138
1
MONITOR BRANCH FROM BUS 129343 TO BUS 103166 CKT 2 / NRTHPT P 138 NOR HBR 138
2
MONITOR BRANCH FROM BUS 129343 TO BUS 103166 CKT 3 / NRTHPT P 138 NOR HBR 138
3
MONITOR BRANCH FROM BUS 147857 TO BUS 126299 CKT 1 / DVNPT NK 345 REACBUS 345
MONITOR BRANCH FROM BUS 129459 TO BUS 128880 CKT 1 / SHOREHAM 138 SHHVDCL 192
MONITOR BRANCH FROM BUS 128847 TO BUS 128842 CKT 1 / NWBRG 345 NEPTCONV 345
END

END / END FILE

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# File db2008\_nyca-wind-ABB.mon

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MONITOR INTERFACE 'DYSINGER EAST OPEN' /
MONITOR BRANCH FROM BUS 130754 TO BUS 149000 CKT 1 / KINTI345 345 *ROCH 345 345 1
MONITOR BRANCH FROM BUS 130767 TO BUS 130764 CKT 1 /*STOLE230 230 MEYER230 230 1
    BE REPLACED BY PROJECT NO. 144
MONITOR BRANCH FROM BUS 130767 TO BUS 130770 CKT 1 /*STOLE230 230 HIGH SHELDON 230 1
    PROJECT NO. 144
MONITOR BRANCH FROM BUS 135260 TO BUS 131344 CKT 1 /*ANDOVER TO PALMT115 115KV OPERATED
NORMALLY OPEN
MONITOR BRANCH FROM BUS 135452 TO BUS 135872 CKT 1 /*LOCKPORT 115 SOUR-111 115 1
MONITOR BRANCH FROM BUS 135452 TO BUS 135851 CKT 1 /*LOCKPORT 115 SHEL-113 115 1
MONITOR BRANCH FROM BUS 135452 TO BUS 135876 CKT 1 /*LOCKPORT 115 TELRDPT1 115 1
MONITOR BRANCH FROM BUS 135452 TO BUS 135865 CKT 1 /*LOCKPORT 115 NAKR-108 115 1
MONITOR BRANCH FROM BUS 135452 TO BUS 135875 CKT 1 /*LOCKPORT 115 TELRDPT1 115 1
MONITOR BRANCH FROM BUS 135452 TO BUS 135867 CKT 1 /*LOCKPORT 115 OAKFLDTP 115 1
replaced by alabama ledge
MONITOR BRANCH FROM BUS 135452 TO BUS 146666 CKT 1 /*LOCKPORT 115 Alabama Ledge Tap 115
MONITOR BRANCH FROM BUS 135954 TO BUS 136016 CKT 1 / Burt 34 Phillips 34
MONITOR BRANCH FROM BUS 147834 TO BUS 149000 CKT 1 / NIAG 345 345 *ROCH 345 345 1
END
MONITOR INTERFACE 'WEST-CENTRAL OPEN' /
MONITOR BRANCH FROM BUS 130767 TO BUS 130764 CKT 1 /*STOLE230 230 MEYER230 230 1
    BE REPLACED BY PROJECT NO. 144
MONITOR BRANCH FROM BUS 130767 TO BUS 130770 CKT 1 /*STOLE230 230 HIGH SHELDON 230 1
    PROJECT NO. 144
MONITOR BRANCH FROM BUS 135260 TO BUS 131344 CKT 1 / ANDOVER TO PALMT115 115KV OPERATED
NORMALLY OPEN
MONITOR BRANCH FROM BUS 135861 TO BUS 135860 CKT 1 / 3891 {MORTIMER 115} 3862 {LAWLER-1 115} 1
MONITOR BRANCH FROM BUS 135861 TO BUS 136213 CKT 1 / 3891 {MORTIMER 115} 3863 {LAWLER-2 115} 1
MONITOR BRANCH FROM BUS 149005 TO BUS 131243 CKT 1 / 5211 {CLYDE199 115} 3621 {SLEIG115 115} 1
MONITOR BRANCH FROM BUS 149005 TO BUS 136183 CKT 1 / 5211 {CLYDE199 115} 4140 {CLTNCORN 115} 1
MONITOR BRANCH FROM BUS 149075 TO BUS 136194 CKT 1 / 5212 {FARMNGTN34.5} 3865 {FARMGTN1 115} 1
MONITOR BRANCH FROM BUS 149141 TO BUS 136197 CKT 1 / 5212 {FARMNGT2-34.5} 3868 {FRMGTN-4 115} 1
MONITOR BRANCH FROM BUS 149146 TO BUS 136197 CKT 1 / 5216 {S168 12.0} 3868 {FRMGTN-4 115} 1
MONITOR BRANCH FROM BUS 149010 TO BUS 131345 CKT 1 / 5265 {STA 162 115} 3616 {S.PER115 115} 1
MONITOR BRANCH FROM BUS 149001 TO BUS 136150 CKT 1 / 5436 {PANNELL3 345} 4143 {CLAY 345} 2
MONITOR BRANCH FROM BUS 149001 TO BUS 136150 CKT 2 / 5436 {PANNELL3 345} 4143 {CLAY 345} 2
MONITOR BRANCH FROM BUS 149025 TO BUS 136197 CKT 1 / 5438 {PANNELLI 115} 3868 {FRMGTN-4 115} 1
MONITOR BRANCH FROM BUS 149026 TO BUS 131242 CKT 1 / 5439 {QUAKER 115} 3592 {MACDN115 115} 1
MONITOR BRANCH FROM BUS 149026 TO BUS 131243 CKT 1 / 5439 {QUAKER 115} 3621 {SLEIG115 115} 1
MONITOR BRANCH FROM BUS 149122 TO BUS 130926 CKT 1 / C708 LB 34.5 WOLCOT34 34.5
MONITOR BRANCH FROM BUS 149004 TO BUS 131243 CKT 1 / 149004 S121 B#2 115 131243* SLEIG115 115
1
MONITOR BRANCH FROM BUS 149074 TO BUS 136167 CKT 1 / 149074 STA127 34.5 136167* HOOKRD 115
1
COM *** This transformer is added on March 19, 2009 based on intflw-18.dat and Operating report
2008
MONITOR BRANCH FROM BUS 149118 TO BUS 149005 CKT 1 / CLYDE34 34.5 CLYDE199 115
END
MONITOR INTERFACE 'VOLNEY EAST OPEN' /
MONITOR BRANCH FROM BUS 130755 TO BUS 130753 CKT 1 / OAKDL345 345 FRASR345 345
MONITOR BRANCH FROM BUS 130819 TO BUS 130817 CKT 1 / KATEL115 115 JENN 115 115
MONITOR BRANCH FROM BUS 130838 TO BUS 130794 CKT 1 / OAKDL115 115 DELHI115 115
MONITOR BRANCH FROM BUS 130863 TO BUS 130796 CKT 1 / WILET115 115 E.NOR115 115
MONITOR BRANCH FROM BUS 136150 TO BUS 137200 CKT 1 / CLAY 345 EDIC 345
MONITOR BRANCH FROM BUS 136150 TO BUS 137200 CKT 2 / CLAY 345 EDIC 345
MONITOR BRANCH FROM BUS 136156 TO BUS 147833 CKT 1 / VOLNEY 345 MARCY T1 345
MONITOR BRANCH FROM BUS 136216 TO BUS 136755 CKT 1 / LTHSE HL 115 BLACK RV 115
MONITOR BRANCH FROM BUS 136216 TO BUS 136768 CKT 1 / LTHSE HL 115 E WTRTWN 115
MONITOR BRANCH FROM BUS 136244 TO BUS 137233 CKT 1 / TEALL 115 ONEIDA 115
MONITOR BRANCH FROM BUS 137219 TO BUS 137233 CKT 1 / W.Hill 115 ONEIDA 115
MONITOR BRANCH FROM BUS 136176 TO BUS 137234 CKT 1 / Bridgeport 115 PETRBORO 115
MONITOR BRANCH FROM BUS 147830 TO BUS 137200 CKT 1 / JA FITZP 345 EDIC 345
MONITOR BRANCH FROM BUS 136529 TO BUS 137360 CKT 1 / OMEGAWIR 34.5 CAMDEN 34.5
END
MONITOR INTERFACE 'MOSES SOUTH OPEN' /
MONITOR BRANCH FROM BUS 136750 TO BUS 136760 CKT 1 / 4155* ALCOA-NM 115 4169 BROWNING 115 1
MONITOR BRANCH FROM BUS 136767 TO BUS 136752 CKT 1 / 4191* DENNISON 115 4156 ANDRWS-4 115 1
MONITOR BRANCH FROM BUS 136767 TO BUS 136782 CKT 1 / 4191 DENNISON 115 4229* LWRNCE-B 115 1

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MONITOR BRANCH FROM BUS 147828 TO BUS 147827 CKT 1 / 4888* MASSA765 765 4887 MARCY765 765 1
MONITOR BRANCH FROM BUS 147840 TO BUS 147835 CKT 1 / 4903* MOSES-WM 230 4898 ADRONIB1 230 1
MONITOR BRANCH FROM BUS 147840 TO BUS 147836 CKT 1 / 4903* MOSES-WM 230 4899 ADRONIB2 230 1
MONITOR BRANCH FROM BUS 136751 TO BUS 136764 CKT 1 / ALLENS F 115 COLTON 115
MONITOR BRANCH FROM BUS 136854 TO BUS 136855 CKT 1 / Gilpin 46 Gilpin Tap 46
MONITOR BRANCH FROM BUS 131777 TO BUS 131791 CKT 1 / Jay 12 Norton 46
END
MONITOR INTERFACE 'TOTAL EAST' /
MONITOR BRANCH FROM BUS 130862 TO BUS 131560 CKT 1 / W.WDB115 115 W.WDBR6969.0
MONITOR BRANCH FROM BUS 130753 TO BUS 147831 CKT 1 / FRASR345 345 GILB 345 345
MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 SHOEMTAP 345
MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCKTAV 345
MONITOR BRANCH FROM BUS 2 TO BUS 126250 CKT 1 / (old) BRANCHBG 500 RAMAPO 5 500
MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 / (new) jefferson 500 RAMAPO 5 500
MONITOR BRANCH FROM BUS 4989 TO BUS 126278 CKT 1 / HUDSON 1 345 FARRGUT1 345
MONITOR BRANCH FROM BUS 5039 TO BUS 126279 CKT 1 / HUDSON 2 345 FARRGUT2 345
MONITOR BRANCH FROM BUS 4996 TO BUS 126321 CKT 1 / LINDEN 230 GOETHALS 230
MONITOR BRANCH FROM BUS 5028 TO BUS 146752 CKT 1 / WALDWICK 345 SMAHWAH1 345
MONITOR BRANCH FROM BUS 5028 TO BUS 146753 CKT 1 / WALDWICK 345 SMAHWAH2 345
MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1
MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC9 345 N.SCOT77 345} 1
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTRDM.2 230} 1
REPLACED BY PROJECT NO. 186
MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTRDM.2 230} 1
PROJECT NO. 186
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTRDM.2 230} 2
MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1
MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1
MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1
MONITOR BRANCH FROM BUS 9803 TO BUS 146761 CKT 1 / HCOR138 138 BURNS138 138 RECO
TIE
MONITOR BRANCH FROM BUS 9804 TO BUS 146752 CKT 1 / SMAH138 138 SMAHWAH1 345 RECO
TIE
MONITOR BRANCH FROM BUS 9804 TO BUS 146769 CKT 1 / SMAH138 138 RAMP138 138 RECO
TIE
MONITOR BRANCH FROM BUS 9808 TO BUS 146812 CKT 1 / HCOR69 69.0 WNYA69 69.0 RECO
TIE
MONITOR BRANCH FROM BUS 9809 TO BUS 146777 CKT 1 / MONTVALE69.0 BLUHILL 69.0 RECO
TIE
MONITOR BRANCH FROM BUS 9809 TO BUS 146777 CKT 2 / MONTVALE69.0 BLUHILL 69.0 RECO
TIE
MONITOR BRANCH FROM BUS 9809 TO BUS 146850 CKT 1 / MONTVALE69.0 L491T 69.0 RECO
TIE
MONITOR BRANCH FROM BUS 9810 TO BUS 146790 CKT 1 / SMAH69 69.0 HILB69 69.0 RECO
TIE
MONITOR BRANCH FROM BUS 9811 TO BUS 146826 CKT 1 / HCOR34 34.5 PEARL34 34.5 RECO
TIE
MONITOR BRANCH FROM BUS 9814 TO BUS 146807 CKT 1 / CRESSKIL69.0 SPARKILL69.0 RECO
TIE
MONITOR BRANCH FROM BUS 128842 TO BUS 128847 CKT 1 / NEPTCONV 345 NWBRG 345
MONITOR BRANCH FROM BUS 5473 TO BUS 126265 CKT 1 / LINDEN VFT
END
MONITOR INTERFACE 'CENTRAL EAST' /
MONITOR BRANCH FROM BUS 130797 TO BUS 137886 CKT 1 / E.SPR115 115 INGHAM-E 115} 1
MONITOR BRANCH FROM BUS 137200 TO BUS 137452 CKT 1 / EDIC 345 N.SCOT77 345} 1
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 1 / PORTER 2 230 ROTRDM.2 230} 1
REPLACED BY PROJECT NO. 186
MONITOR BRANCH FROM BUS 137204 TO BUS 137730 CKT 1 / JORDANVILLE 230 ROTRDM.2 230} 1
PROJECT NO. 186
MONITOR BRANCH FROM BUS 137210 TO BUS 137730 CKT 2 / PORTER 2 230 ROTRDM.2 230} 2
MONITOR BRANCH FROM BUS 137228 TO BUS 137886 CKT 1 / INGMS-CD 115 INGHAM-E 115} 1
MONITOR BRANCH FROM BUS 147833 TO BUS 137453 CKT 1 / MARCY T1 345 N.SCOT99 345} 1
/ MONITOR BRANCH FROM BUS 147852 TO BUS 100511 CKT 1 / PLAT T#3 115 GRAND IS 115} 1 /
(ABB: Commented out per Larry Eng e-mail dated 4.23.09)
END
MONITOR INTERFACE 'UPNY-SENY OPEN' /
/ MONITOR BRANCH FROM BUS 2 TO BUS 126250 CKT 1 / (old) BRANCHBG 500 RAMAPO 5 500 /
(ABB: Commented out per Larry Eng e-mail dated 4.23.09)
/ MONITOR BRANCH FROM BUS 91 TO BUS 126250 CKT 1 / (new) jefferson 500 RAMAPO 5 500 /
(ABB: Commented out per Larry Eng e-mail dated 4.23.09)
MONITOR BRANCH FROM BUS 103117 TO BUS 126294 CKT 1 / LONGMTN 345 PLTVLLEY 345

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MONITOR BRANCH FROM BUS 103337 TO BUS 125127 CKT 1 / SALISBRY 69 SMITHFLD 69 ADDED
TO MATCH MANUAL NORMALLY OPEN
MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCKTAV 345
MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 SHOEMTAP 345
MONITOR BRANCH FROM BUS 130862 TO BUS 131560 CKT 1 / W.WDB115 115 W.WDBR69 69
MONITOR BRANCH FROM BUS 137451 TO BUS 125000 CKT 1 / LEEDS 3 345 HURLEY 3 345
MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 2 / LEEDS 3 345 PLTVLLEY 345
MONITOR BRANCH FROM BUS 137455 TO BUS 126294 CKT 1 / ATHENS 345 PLTVLLEY 345
MONITOR BRANCH FROM BUS 137480 TO BUS 125043 CKT 1 / ADM 115 PL.VAL 1 115
MONITOR BRANCH FROM BUS 137489 TO BUS 125043 CKT 1 / BL STR 115 PL.VAL 1 115
MONITOR BRANCH FROM BUS 137492 TO BUS 125043 CKT 1 / BLUES-8 115 PL.VAL 1 115
MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 1 / AIRCO-2T 115 N.CAT. 1 115 (V2
reactor by-passed)
MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 2 / AIRCO-2T 115 N.CAT. 1 115 (V2
reactor I/S)
END
MONITOR INTERFACE 'UPNY-CONED OPEN' /
MONITOR BRANCH FROM BUS 125002 TO BUS 126281 CKT 1 / 2514 {ROSETON 345} 2835 {FISHKILL 345} 1
MONITOR BRANCH FROM BUS 125026 TO BUS 131112 CKT 1 / 2523 {FISHKILL 115} 3627 {SYLVN115 115} 1
MONITOR BRANCH FROM BUS 125022 TO BUS 126281 CKT 1 / 2605 {E FISH I 115} 2835 {FISHKILL 345} 1
MONITOR BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / 2846 {LADENTWN 345} 2816 {BUCH S 345} 1
MONITOR BRANCH FROM BUS 126294 TO BUS 126281 CKT 1 / 2852 {PLTVLLEY 345} 2835 {FISHKILL 345} 1
MONITOR BRANCH FROM BUS 126294 TO BUS 126281 CKT 2 / 2852 {PLTVLLEY 345} 2835 {FISHKILL 345} 2
MONITOR BRANCH FROM BUS 126294 TO BUS 126291 CKT 1 / 2852 {PLTVLLEY 345} 2847 {MILLWOOD 345} 1
MONITOR BRANCH FROM BUS 126294 TO BUS 126306 CKT 1 / 2852 {PLTVLLEY 345} 2863 {WOOD B 345} 1
MONITOR BRANCH FROM BUS 126297 TO BUS 126262 CKT 1 / 2854 {RAMAPO 345} 2815 {BUCH N 345} 1
END
MONITOR INTERFACE 'MILLWOOD-SOUTH' /
MONITOR BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / BUCH N 345 E VIEW1 345
MONITOR BRANCH FROM BUS 126281 TO BUS 126292 CKT 1 / FISHKILL 345 PL VILLE 345
MONITOR BRANCH FROM BUS 126291 TO BUS 126268 CKT 1 / MILLWOOD 345 E VIEW2 345
MONITOR BRANCH FROM BUS 126291 TO BUS 126269 CKT 1 / MILLWOOD 345 E VIEW3 345
MONITOR BRANCH FROM BUS 126291 TO BUS 126270 CKT 1 / MILLWOOD 345 E VIEW4 345
MONITOR BRANCH FROM BUS 126305 TO BUS 126293 CKT 1 / WOOD A 345 PL VILLW 345
END
MONITOR INTERFACE 'NYC Cable' /
MONITOR BRANCH FROM BUS 126298 TO BUS 126301 CKT 1 / SPRBROOK 345 TREMONT 345
MONITOR BRANCH FROM BUS 126370 TO BUS 126483 CKT 1 / DUN NO1R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126371 TO BUS 126483 CKT 1 / DUN NO2R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126374 TO BUS 126385 CKT 1 / DUN SO1R 138 E179 ST 138
MONITOR BRANCH FROM BUS 126517 TO BUS 126304 CKT 1 / REACM51 345 W 49 ST 345
MONITOR BRANCH FROM BUS 126518 TO BUS 126304 CKT 2 / REACM51 345 W 49 ST 345
MONITOR BRANCH FROM BUS 126600 TO BUS 126641 CKT 3 / REAC71 345 S. BRONX 345
MONITOR BRANCH FROM BUS 126601 TO BUS 126641 CKT 4 / REAC72 345 S. BRONX 345
MONITOR BRANCH FROM BUS 129249 TO BUS 126455 CKT 1 / L SUCSPH 138 JAMAICA 138
MONITOR BRANCH FROM BUS 129235 TO BUS 126455 CKT 1 / V STRM P 138 JAMAICA 138
MONITOR BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 / SPRBROOK 345 SHERMAN CREEK 345
M29 PROJECT
END
MONITOR INTERFACE 'DUN-SOUTH OPEN' /
MONITOR BRANCH FROM BUS 126266 TO BUS 128835 CKT 1 / DUNWODIE 345 SHORE RD 345
MONITOR BRANCH FROM BUS 126298 TO BUS 126301 CKT 1 / SPRBROOK 345 TREMONT 345
MONITOR BRANCH FROM BUS 126299 TO BUS 147857 CKT 1 / REACBUS 345 DVNPT NK 345
MONITOR BRANCH FROM BUS 126370 TO BUS 126483 CKT 1 / DUN NO1R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126371 TO BUS 126483 CKT 1 / DUN NO2R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126374 TO BUS 126385 CKT 1 / DUN SO1R 138 E179 ST 138
MONITOR BRANCH FROM BUS 126517 TO BUS 126304 CKT 1 / REACTORM51 W 49 ST 345
MONITOR BRANCH FROM BUS 126518 TO BUS 126304 CKT 2 / REACTORM51 W 49 ST 345
MONITOR BRANCH FROM BUS 126600 TO BUS 126641 CKT 3 / REAC71 345 S. BRONX 345
MONITOR BRANCH FROM BUS 126601 TO BUS 126641 CKT 4 / REAC72 345 S. BRONX 345
MONITOR BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 / SPRBROOK 345 SHERMAN CREEK 345
M29 PROJECT
END
MONITOR INTERFACE 'I-TO-J' /
MONITOR BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 / SPRBROOK 345 SHCRK 345
MONITOR BRANCH FROM BUS 126600 TO BUS 126641 CKT 3 / REAC71 345 S. BRONX 345
MONITOR BRANCH FROM BUS 126601 TO BUS 126641 CKT 4 / REAC72 345 S.
BRONX 345
MONITOR BRANCH FROM BUS 126298 TO BUS 126301 CKT 1 / 2855 {SPRBROOK 345} 2858 {TREMONT 345}
1
MONITOR BRANCH FROM BUS 126517 TO BUS 126304 CKT 1 / REACTORM51 TO W 49 ST 345

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MONITOR BRANCH FROM BUS 126518 TO BUS 126304 CKT 2 / REACTORM51 TO W 49 ST 345
MONITOR BRANCH FROM BUS 126370 TO BUS 126483 CKT 1 / 2878 {DUN NO1R 138} 2951 {S CREEK 138}
1
MONITOR BRANCH FROM BUS 126371 TO BUS 126483 CKT 1 / 2879 {DUN NO2R 138} 2951 {S CREEK 138}
1
MONITOR BRANCH FROM BUS 126374 TO BUS 126385 CKT 1 / 2882 {DUN SO1R 138} 2886 {E179 ST 138}
1
END
monitor interface 'Willis Export' / North/D Wind sub-zone
monitor branch from bus 136751 to bus 136764 ckt 1 / Allens Falls Colton
115
monitor branch from bus 147845 to bus 147840 ckt 1 / MW-1 Willis E
St.Lawrence/FDR 230
monitor branch from bus 147846 to bus 147840 ckt 1 / MW-2 Willis W
St.Lawrence/FDR 230
monitor branch from bus 147852 to bus 100511 ckt 1 / PV-20 Plattsburgh Grand Isle
115
end
MONITOR INTERFACE 'Leeds-PV' /
MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 2 / LEEDS 3 345 PLTVLLEY 345
MONITOR BRANCH FROM BUS 137455 TO BUS 126294 CKT 1 / ATHENS 345 PLTVLLEY 345 REPLACES
LEEDS-PV #1
END
MONITOR INTERFACE 'ItoNYC345' /
MONITOR BRANCH FROM BUS 126600 TO BUS 126641 CKT 3 / REAC71 345 MOTT-HAVEN
MONITOR BRANCH FROM BUS 126601 TO BUS 126641 CKT 4 / REAC72 345 MOTT-HAVEN
MONITOR BRANCH FROM BUS 126517 TO BUS 126304 CKT 1 / REACM51 345 W 49 ST 345
MONITOR BRANCH FROM BUS 126518 TO BUS 126304 CKT 2 / REACM52 345 W 49 ST 345
END
MONITOR INTERFACE 'ItoNYC138'
MONITOR BRANCH FROM BUS 126298 TO BUS 126847 CKT 1 / SPRBROOK 345 SHCRK 345 M29
PROJ
MONITOR BRANCH FROM BUS 126298 TO BUS 126301 CKT 1 / SPRBROOK 345 TREMONT 345
MONITOR BRANCH FROM BUS 126370 TO BUS 126483 CKT 1 / DUN NO1R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126371 TO BUS 126483 CKT 1 / DUN NO2R 138 S CREEK 138
MONITOR BRANCH FROM BUS 126374 TO BUS 126385 CKT 1 / DUN SO1R 138 E179 ST 138
END
MONITOR INTERFACE NY-NE /
MONITOR TIES FROM SYSTEM NewYork TO SYSTEM NewEngland
com MONITOR BRANCH FROM BUS 129459 TO BUS 128880 CKT 1 / Cross Sound Cable to NE (MUST
does not recognize HVdc branch)
END
MONITOR INTERFACE ONT-NY /
MONITOR TIES FROM SYSTEM Ontario TO SYSTEM NewYork
END
MONITOR INTERFACE NE-NY /
MONITOR TIES FROM SYSTEM NewEngland TO SYSTEM NewYork
com MONITOR BRANCH FROM BUS 128880 TO BUS 129459 CKT 1 / Cross Sound Cable to NY (MUST
does not recognize HVdc branch)
END
MONITOR INTERFACE PJM-NY /
MONITOR TIES FROM SYSTEM PJM TO SYSTEM NewYork
com MONITOR BRANCH FROM BUS 128842 TO BUS 128847 CKT 1 / NEPTCONV 345 NWBRG 345 (MUST does
not recognize HVdc branch)
END
MONITOR INTERFACE 'PJM-CENT' /
98126 9 1 / Airydale(KEYSTONE) 500 TO JUNIATA 500 2381.0 3013.0 0.0
98127 9 1 / Airydale(CONEM-GH) 500 TO JUNIATA 500 2284.0 3013.0 0.0
11 9 1 / (old)KEYSTONE 500 TO JUNIATA 500 2381.0 3013.0 0.0
5 9 1 / (old)CONEM-GH 500 TO JUNIATA 500 2284.0 3013.0 0.0
4 13 1 / CNASTONE 500 TO PEACHTM 500 2552.0 2596.0 0.0
END
MONITOR INTERFACE 'PJM-WEST' /
98126 9 1 / Airydale(KEYSTONE) 500 TO JUNIATA 500 2381.0 3013.0 0.0
98127 9 1 / Airydale(CONEM-GH) 500 TO JUNIATA 500 2284.0 3013.0 0.0

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11      9 1 / (old)KEYSTONE 500 TO JUNIATA 500      2381.0      3013.0      0.0
5       9 1 / (old)CONEM-GH 500 TO JUNIATA 500      2284.0      3013.0      0.0
5       26 1 / CONEM-GH 500 TO HUNTERTN 500      2051.0      3013.0      0.0
235105 3 1 / 01DOUBS 500 TO BRIGHTON 500      2078.0      2598.0      0.0
END
/

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MONITOR INTERFACE 'ON-NIAG' /
157062 135415 1 / BP76 REG 230 TO PACKWARD 230
157051 147834 1 / BECKB 345 TO NIAGA 345
157050 147834 1 / BECK A 345 TO NIAGA 345
157063 147842 1 / PA27 REG 230 TO NIAGA 230
END
/

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MONITOR INTERFACE 'QFW' /
157052 158103 1 / BECK2 DK 220 HANONJ24 220 Q24
157052 158105 1 / BECK2 DK 220 HANONJ29 220 Q29
157052 157070 1 / BECK2 DK 220 NWEST25J 220 Q25
157052 157069 1 / BECK2 DK 220 NWEST23J 220 Q23
157053 158069 1 / ALANJQ30 220 MDDLDK1 220 Q30
158165 158069 1 / CROSJQ26 220 to MDDLDK1 220 Q26M
158166 158142 1 / CROSJQ32 220 to STANNT35 220 Q35M
END

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MONITOR INTERFACE 'CEDARS-DENNISON' /
MONITOR BRANCH FROM BUS 199998 TO BUS 136767 CKT 1 / ROSEMT-A 115 to Dennison 115
MONITOR BRANCH FROM BUS 199999 TO BUS 136767 CKT 1 / ROSEMT-B 115 to Dennison 115
END

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MONITOR INTERFACE 'hq-7040-ny' /
MONITOR BRANCH FROM BUS 180819 TO BUS 147828 CKT 1 / Chateauguay-Massena MSC-7040
END

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MONITOR INTERFACE 'ONTARIO-MICHIGAN' /
MONITOR BRANCH FROM BUS 160058 TO BUS 264690 CKT 1 / 82590* J5D PS 230 28883 19WTRMN 230
1
MONITOR BRANCH FROM BUS 160065 TO BUS 264830 CKT 1 / 82602* LAMB L51 220 29028 19STCPP 220
1
MONITOR BRANCH FROM BUS 160063 TO BUS 264883 CKT 1 / 82645 SCOTT 220 29003* 19B3N PS 220
1
MONITOR BRANCH FROM BUS 160050 TO BUS 264656 CKT 1 / 82695 LAMB L4D 345 28849* 19STCPP 345
1
END

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```

MONITOR INTERFACE 'ONT-MISO-NorthMRO' /
MONITOR BRANCH FROM BUS 151053 TO BUS 667073 CKT 1 / 82260* KENORA 220 67556 WHTSL1 4 220
1
MONITOR BRANCH FROM BUS 151053 TO BUS 667072 CKT 1 / 82260* KENORA 220 67589 WHTSL2 4 220
1
MONITOR BRANCH FROM BUS 151203 TO BUS 608784 CKT 1 / 82452 ONT-MINN 118 61784* INTPHAS7 118
1
END

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MONITOR INTERFACE 'LIPA Import' /
MONITOR BRANCH FROM BUS 126266 TO BUS 128835 CKT 1 / 4316* DUNWODIE 345 5000 SHORE RD 345 1
MONITOR BRANCH FROM BUS 126455 TO BUS 129249 CKT 1 / 4505* JAMAICA 138 5047 L SUCSPH 138 1
MONITOR BRANCH FROM BUS 126455 TO BUS 129235 CKT 1 / 4505* JAMAICA 138 5067 V STRM P 138 1
MONITOR BRANCH FROM BUS 103166 TO BUS 129343 CKT 1 / NOR HBR 138 NRTHPT P 138 1
MONITOR BRANCH FROM BUS 103166 TO BUS 129343 CKT 2 / NOR HBR 138 NRTHPT P 138 2
MONITOR BRANCH FROM BUS 103166 TO BUS 129343 CKT 3 / NOR HBR 138 NRTHPT P 138 3
MONITOR BRANCH FROM BUS 126299 TO BUS 147857 CKT 1 / REACBUS 345 DVNPT NK 345
MONITOR BRANCH FROM BUS 128880 TO BUS 129459 CKT 1 / SHHVDCL 192 SHOREHAM 138
MONITOR BRANCH FROM BUS 128842 TO BUS 128847 CKT 1 / NEPTCONV 345 NWBRG 345
END

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MONITOR INTERFACE 'ConEd-LIPA' /
MONITOR BRANCH FROM BUS 126266 TO BUS 128835 CKT 1 / 4316* DUNWODIE 345 5000 SHORE RD 345 1
MONITOR BRANCH FROM BUS 126455 TO BUS 129249 CKT 1 / 4505* JAMAICA 138 5047 L SUCSPH 138 1
MONITOR BRANCH FROM BUS 126455 TO BUS 129235 CKT 1 / 4505* JAMAICA 138 5067 V STRM P 138 1
MONITOR BRANCH FROM BUS 126299 TO BUS 147857 CKT 1 / REACBUS 345 DVNPT NK 345
END

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### **B.3 Contingency Description File**

**CEII - Redacted from public version**



## **B.4 Excluded Monitored Facilities and Contingencies**

**CEII - Redacted from public version**

**APPENDIX C – EMERGENCY THERMAL TRANSFER LIMITS – MUST  
OUTPUT**

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:02 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\suml8tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 34057  
 First violation - -172897.5 MW.

Interface-1 Interface 1 DYSINGER EAS Init.Flow= 1587.19 TDF= 0.7296

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ONT_A_EXP	GHI_IMPOR	3000.0	1	-172897	-124559		L: Interface	21 PJM-WEST		5218.1	0.0	0.03018		0.05195	5119.7	-3862.8
								C:SIN:301	666							
								Open 126260 BOWLINE1 345 146841 BOWL	20.0 1	NA						
								Open 126260 BOWLINE1 345 146750 WHAV345	345 10				-0.20871	0.10405	-470.6	-18461.2
								Open 126290 LADENTWN 345 146750 WHAV345	345 1				-0.00059	0.09520	-170.9	-16631.4
			2	-157005	-112964		L: Interface	21 PJM-WEST		5144.2	0.0	0.03276		0.05195	5119.7	-3037.2
								C:SER:C398/NWES1	606							
								Open 409 GROVER 230 200675 E.TWANDA	230 1				0.06508	0.00132	-15.5	-222.3
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.17331	-0.08165	116.1	12935.5
								Open 381 TOWANDA 115 200675 E.TWANDA	230 1				0.01303	-0.00663	-52.6	988.3
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.14729	-0.03420	40.8	5410.3
			3	-156812	-112823		L: Interface	21 PJM-WEST		5145.8	0.0	0.03281		0.05195	5119.7	-3027.2
								C:SER:ETHS/NWES1	607							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.17129	-0.08165	116.1	12919.7
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.15067	-0.03420	40.8	5403.7
			4	-140011	-100565		L: Interface	21 PJM-WEST		5140.3	0.0	0.03671		0.05195	5119.7	-2154.3
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.13790	-0.08165	116.1	11547.9
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				0.12173	-0.03270	37.4	4615.5
			5	-122942	-88112.1		L: Interface	21 PJM-WEST		5134.2	0.0	0.04176		0.05195	5119.7	-1267.5
								C:130763 HILSD230 230 200675 E.TWANDA	375							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.12483	-0.08165	116.1	10154.2
			6	-115745	-82861.2		L: Interface	21 PJM-WEST		5130.8	0.0	0.04433		0.05195	5119.7	-893.6
								C:130763 HILSD230 230 130768 WATRC230	219							
								Open 130763 HILSD230 230 130768 WATRC230	230 1				-0.05805	0.13134	-190.6	-15392.8
			7	-113621	-81311.7		L: Interface	21 PJM-WEST		5137.5	0.0	0.04522		0.05195	5119.7	-783.3
								C:BUS:WATERCURE_2301	634							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				-0.02068	0.05517	73.0	-6195.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.07347	-0.07617	264.1	8918.8
								Open 130763 HILSD230 230 130768 WATRC230	230 1				-0.18954	0.00000	0.5	0.5
			8	-110838	-79281		L: Interface	21 PJM-WEST		5050.1	0.0	0.04556		0.05195	5119.7	-638.7
								C:MULT041	657							
								Open 9 JUNIATA 500 21 SUNBURY	500 1				-0.13385	0.04683	526.9	-4663.7
								Open 21 SUNBURY 500 3084 SUNBURY	230 24				-0.00697	0.01756	-120.9	-2067.6
			9	-109725	-78468.8		L: Interface	21 PJM-WEST		5137.5	0.0	0.04682		0.05195	5119.7	-580.8
								C:130757 WATRC345 345 130768 WATRC230	213							
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.06737	-0.07617	264.1	8622.0
			10	-107106	-76557.9 *		L: Interface	21 PJM-WEST		5189.8	0.0	0.04845		0.05195	5119.7	-444.8
								C:SER:HC-SR 37&W-F 1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				-0.17843	0.01855	-377.8	-2364.9
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.07359	0.00256	-35.9	-309.8
			1758	-67706.8	-47812		L: Interface	20 PJM-CENT		3534.1	0.0	0.05220		0.10958	3274.5	-4144.5
								C:126260 BOWLINE1 345 146750 WHAV345	79							
								Open 126260 BOWLINE1 345 146750 WHAV345	345 10				-0.55144	0.10405	-470.6	-7515.8
			1763	-53332.5	-37324.4		L: Interface	20 PJM-CENT		3475.2	0.0	0.06516		0.10958	3274.5	-2569.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:SIN:301		666							
							Open 126260 BOWLINE1	345 146841 BOW1	20.0 1	NA						
							Open 126260 BOWLINE1	345 146750 WHAV345	345 10				-0.42591	0.10405	-470.6	-6020.1
							Open 126290 LADENTWN	345 146750 WHAV345	345 1				-0.00103	0.09520	-170.9	-5248.4
			1764	-49734.9	-34699.6	L: Interface	20 PJM-CENT			3233.7	0.0	0.06502		0.10958	3274.5	-2175.2
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW	230 3070 LACKAWNA	230 1				0.33015	-0.13496	-123.7	6588.4
			1765	-47794.8	-33284.1	L: Interface	20 PJM-CENT			3327.1	0.0	0.06961		0.10958	3274.5	-1962.6
							C:ETHS/NWES/LLGDI		649							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.28217	-0.08165	116.1	4018.5
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.25854	-0.03420	40.8	1675.4
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.24719	-0.03270	37.4	1600.2
			1766	-40073.2	-27650.4	L: Interface	20 PJM-CENT			3308.8	0.0	0.08257		0.10958	3274.5	-1116.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER	230 200675 E.TWANDA	230 1				0.09832	0.00132	-15.5	-68.3
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.24421	-0.08165	116.1	3388.0
							Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01929	-0.00663	-52.6	213.1
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.20672	-0.03420	40.8	1411.3
			1767	-40066.3	-27645.3	L: Interface	20 PJM-CENT			3311.2	0.0	0.08264		0.10958	3274.5	-1115.7
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.24118	-0.08165	116.1	3387.4
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.21172	-0.03420	40.8	1411.1
			1768	-37465.5	-25747.8	L: Interface	20 PJM-CENT			3303.4	0.0	0.08817		0.10958	3274.5	-830.8
							C:ETHS/LLGDI		650							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.19413	-0.08165	116.1	3175.1
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.16981	-0.03270	37.4	1262.4
			1769	-36241.3	-24854.6	L: Interface	20 PJM-CENT			3971.1	0.0	0.10958		0.10958	3274.5	-696.6
							C:GEN:PEACHBTM1		569							
							Remove unit 1 from bus	34 PCHBTM 2 22.0	1059.5 MW dispatch							
			1770	-35774.5	-24514	L: Interface	20 PJM-CENT			3920.0	0.0	0.10958		0.10958	3274.5	-645.5
							C:GEN:SALEM1		568							
							Remove unit 1 from bus	36 SALEM-G1 22.0	1117.3 MW dispatch							
			1771	-34619.5	-23671.3	L: Interface	20 PJM-CENT			3793.4	0.0	0.10958		0.10958	3274.5	-518.9
							C:SIN:2501		678							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus	103563 MILL#3 24.0	1276.0 MW dispatch							
			3526	-6677	-3284.4	L: Interface	60 C2PJMC			-482.4	0.0	-0.07225		-0.12185	-547.8	265.8
							C:130755 OAKDL345	345 130757 WATRC345		206						
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.25046	-0.19802	-261.1	1061.1
			3527	-6677	-3284.4	L: Interface	47 C-PJMWest			-482.4	0.0	-0.07225		-0.12185	-547.8	265.8
							C:130755 OAKDL345	345 130757 WATRC345		206						
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.25046	-0.19802	-261.1	1061.1
			3528	-6677	-3284.4	L: Interface	61 PJMC2C			482.4	0.0	0.07225		0.12185	547.8	-265.8
							C:130755 OAKDL345	345 130757 WATRC345		206						
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.25046	-0.19802	-261.1	1061.1
			3529	-6677	-3284.4	L: Interface	48 PJMWest-C			482.4	0.0	0.07225		0.12185	547.8	-265.8
							C:130755 OAKDL345	345 130757 WATRC345		206						
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.25046	-0.19802	-261.1	1061.1
			3530	-5524.5	-2443.5	L: Interface	60 C2PJMC			-599.3	0.0	-0.10848		-0.12185	-547.8	125.3
							C:SIN:1201		668							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus	147798 IP#3 GEN 22.0	1072.8 MW dispatch							
			3531	-5524.5	-2443.5	L: Interface	60 C2PJMC			-599.3	0.0	-0.10848		-0.12185	-547.8	125.3
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1239.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3532	-5524.5	-2443.5		L: Interface 48 PJMWest-C			599.3	0.0	0.10848		0.12185	547.8	-125.3
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3533	-5524.5	-2443.5		L: Interface 61 PJMC2C			599.3	0.0	0.10848		0.12185	547.8	-125.3
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3534	-5524.5	-2443.5		L: Interface 48 PJMWest-C			599.3	0.0	0.10848		0.12185	547.8	-125.3
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3535	-5524.5	-2443.5		L: Interface 47 C-PJMWest			-599.3	0.0	-0.10848		-0.12185	-547.8	125.3
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3536	-5524.5	-2443.5		L: Interface 61 PJMC2C			599.3	0.0	0.10848		0.12185	547.8	-125.3
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3537	-5524.5	-2443.5		L: Interface 47 C-PJMWest			-599.3	0.0	-0.10848		-0.12185	-547.8	125.3
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13982	785.6	1558.0
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1239.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3538	-5359.9	-2323.4		L: Interface 60 C2PJM			-488.6	0.0	-0.09115		-0.12185	-547.8	105.3
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.10467	-0.29327	-566.1	1005.8
			3539	-5359.9	-2323.4		L: Interface 48 PJMWest-C			488.6	0.0	0.09115		0.12185	547.8	-105.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.10467	-0.29327	-566.1	1005.8
			3540	-5359.9	-2323.4		L: Interface 47 C-PJMWest			-488.6	0.0	-0.09115	-0.12185	-547.8	105.3	
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				-0.10467	-0.29327	-566.1	1005.8
			3541	-5359.9	-2323.4		L: Interface 61 PJMC2C			488.6	0.0	0.09115	0.12185	547.8	-105.3	
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.10467	-0.29327	-566.1	1005.8
			3542	-5253.4	-2245.7		L: Interface 60 C2PJM			-621.0	0.0	-0.11821	-0.12185	-547.8	92.3	
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				0.18770	0.01855	-377.8	-475.3
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.06273	0.00256	-35.9	-49.3
			3543	-5253.4	-2245.7		L: Interface 61 PJMC2C			621.0	0.0	0.11821	0.12185	547.8	-92.3	
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				-0.18770	0.01855	-377.8	-475.3
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.06273	0.00256	-35.9	-49.3
			3544	-5253.4	-2245.7		L: Interface 48 PJMWest-C			621.0	0.0	0.11821	0.12185	547.8	-92.3	
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				-0.18770	0.01855	-377.8	-475.3
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.06273	0.00256	-35.9	-49.3
			3545	-5253.4	-2245.7		L: Interface 47 C-PJMWest			-621.0	0.0	-0.11821	-0.12185	-547.8	92.3	
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				0.18770	0.01855	-377.8	-475.3
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.06273	0.00256	-35.9	-49.3
			3546	-5229.6	-2228.4		L: Interface 47 C-PJMWest			-589.2	0.0	-0.11266	-0.12185	-547.8	89.4	
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1131.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				0.03968	0.23158	-1041.8	-2252.8
			3547	-5229.6	-2228.4		L: Interface 60 C2PJM			-589.2	0.0	-0.11266	-0.12185	-547.8	89.4	
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1131.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				0.03968	0.23158	-1041.8	-2252.8
			3548	-5229.6	-2228.4		L: Interface 48 PJMWest-C			589.2	0.0	0.11266	0.12185	547.8	-89.4	
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1131.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				-0.03968	0.23158	-1041.8	-2252.8
			3549	-5229.6	-2228.4		L: Interface 61 PJMC2C			589.2	0.0	0.11266	0.12185	547.8	-89.4	
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1131.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				-0.03968	0.23158	-1041.8	-2252.8
			3550	-5202.7	-2208.7		L: Interface 48 PJMWest-C			634.0	0.0	0.12187	0.12185	547.8	-86.1	
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765	765 1	NA						
								Open 147828 MASS 765 765 180819 CHA-NY	765 1	NA						
								Open 147827 MARCY765 765 147833 MARCY T1	345 1				0.02482	0.00039	624.3	622.2
								Open 147827 MARCY765 765 147833 MARCY T1	345 2				0.02482	0.00034	543.3	541.5
								Open 156 MCY765SW 0.0 147827 MARCY765	765 1	NA						
								Open 147838 MASS230B 230 147839 MOSES E	230 1				0.00000	-0.00036	10.7	12.6
								Open 147828 MASS 765 765 147838 MASS230B	230 1	NA						
								Open 147837 MASS230A 230 147839 MOSES E	230 1				-0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A	230 1	NA						
								Open 158 MS765SW2 0.0 147828 MASS 765	765 1	NA						
								Open 157 MS765SW1 0.0 147828 MASS 765	765 1	NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3551	-5202.7	-2208.7		L: Interface 60 C2PJM			-634.0	0.0	-0.12187	-0.12185	-547.8	86.1	
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765	765 1	NA						
								Open 147828 MASS 765 765 180819 CHA-NY	765 1	NA						
								Open 147827 MARCY765 765 147833 MARCY T1	345 1				-0.02482	0.00039	624.3	622.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147827 MARCY765 765 147833 MARCY T1 345 2								
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA			-0.02482	0.00034	543.3	541.5
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00036	10.7	12.6
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3552	-5202.7	-2208.7		L: Interface 47 C-PJMWest			-634.0	0.0	-0.12187		-0.12185	-547.8	86.1
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00039	624.3	622.2
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00034	543.3	541.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00036	10.7	12.6
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3553	-5202.7	-2208.7		L: Interface 61 PJMC2C			634.0	0.0	0.12187		0.12185	547.8	-86.1
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00039	624.3	622.2
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00034	543.3	541.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00036	10.7	12.6
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3554	-5188.7	-2198.5		L: Interface 60 C2PJMC			-615.1	0.0	-0.11855		-0.12185	-547.8	84.4
							C:135398 SW345 345 200769 HOMER CY		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01855	-377.8	-474.1
			3555	-5188.7	-2198.5		L: Interface 61 PJMC2C			615.1	0.0	0.11855		0.12185	547.8	-84.4
							C:135398 SW345 345 200769 HOMER CY		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01855	-377.8	-474.1
			3556	-5188.7	-2198.5		L: Interface 47 C-PJMWest			-615.1	0.0	-0.11855		-0.12185	-547.8	84.4
							C:135398 SW345 345 200769 HOMER CY		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01855	-377.8	-474.1
			3557	-5188.7	-2198.5		L: Interface 48 PJMWest-C			615.1	0.0	0.11855		0.12185	547.8	-84.4
							C:135398 SW345 345 200769 HOMER CY		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01855	-377.8	-474.1
			3558	-5183.4	-2194.6		L: Interface 48 PJMWest-C			586.8	0.0	0.11321		0.12185	547.8	-83.8
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1094.3
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2188.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3559	-5183.4	-2194.6		L: Interface 60 C2PUMC			-586.8	0.0	-0.11321		-0.12185	-547.8	83.8
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1094.3
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 2				0.03827	0.22576	-1018.5	-2188.7
			3560	-5183.4	-2194.6		L: Interface 61 PUMC2C			586.8	0.0	0.11321		0.12185	547.8	-83.8
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1094.3
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 2				-0.03827	0.22576	-1018.5	-2188.7
			3561	-5183.4	-2194.6		L: Interface 47 C-PUMWest			-586.8	0.0	-0.11321		-0.12185	-547.8	83.8
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1094.3
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 2				-0.03827	0.22576	-1018.5	-2188.7
			3562	-5157	-2175.4	*	L: Interface 48 PUMWest-C			628.4	0.0	0.12185		0.12185	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3563	-5157	-2175.4	*	L: Interface 47 C-PUMWest			-628.4	0.0	-0.12185		-0.12185	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3564	-5157	-2175.4	*	L: Interface 60 C2PUMC			-628.4	0.0	-0.12185		-0.12185	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3565	-5157	-2175.4	*	L: Interface 61 PUMC2C			628.4	0.0	0.12185		0.12185	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3582	-5017.6	-2073.7		L: Interface 51 G-PUMEast			-239.7	0.0	-0.04777		0.00000	-0.3	-0.3
							C:125001 ROCK TAV	345 126297 RAMAPO		7						
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.21456	0.22265	1116.0	-1.2
			3583	-5017.6	-2073.7		L: Interface 51 G-PUMEast			-239.7	0.0	-0.04777		0.00000	-0.3	-0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.21456	0.22265	1116.0	-1.2
			3584	-5017.6	-2073.7		L: Interface 52 PUMEast-G			239.7	0.0	0.04777		0.00000	0.3	0.3
							C:125001 ROCK TAV	345 126297 RAMAPO		7						
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.21456	0.22265	1116.0	-1.2
			3585	-5017.6	-2073.7		L: Interface 52 PUMEast-G			239.7	0.0	0.04777		0.00000	0.3	0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.21456	0.22265	1116.0	-1.2
			3602	-4938.9	-2016.2		L: Interface 56 NYE-PJMENoRE			-1498.1	-1287.0	-0.04275		0.00000	-1299.4	-1299.4
							C:SER:HC-WC 30&W-F 1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.35376	-0.12185	-547.8	54.0
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.13836	0.00256	-35.9	-48.5
			3603	-4938.9	-2016.2		L: Interface 55 PJME-NYEnoRE			1498.1	1287.0	0.04275		0.00000	1299.4	1299.4
							C:SER:HC-WC 30&W-F 1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.35376	-0.12185	-547.8	54.0
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.13836	0.00256	-35.9	-48.5
			3640	-4784.5	-1903.6		L: Interface 55 PJME-NYEnoRE			1492.4	1287.0	0.04292		0.00000	1299.4	1299.4
							C:130757 WATRC345	345 200769 HOMER CY		374						
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.35224	-0.12185	-547.8	35.2
			3641	-4784.5	-1903.6		L: Interface 56 NYE-PJMENoRE			-1492.4	-1287.0	-0.04292		0.00000	-1299.4	-1299.4
							C:130757 WATRC345	345 200769 HOMER CY		374						
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.35224	-0.12185	-547.8	35.2
			3654	-4739.6	-1870.9		L: Interface 56 NYE-PJMENoRE			-1475.1	-1287.0	-0.03969		0.00000	-1299.4	-1299.4
							C:130750 COOPC345	345 130753 FRASR345		192						
							Open 130750 COOPC345	345 130753 FRASR345	345 1				0.17684	-0.22446	-993.8	70.0
			3655	-4739.6	-1870.9		L: Interface 55 PJME-NYEnoRE			1475.1	1287.0	0.03969		0.00000	1299.4	1299.4
							C:130750 COOPC345	345 130753 FRASR345		192						
							Open 130750 COOPC345	345 130753 FRASR345	345 1				-0.17684	-0.22446	-993.8	70.0
			10472	-4434.9	-1648.5		L: Interface 52 PUMEast-G			154.0	0.0	0.03473		0.00000	0.3	0.3
							C:130750 COOPC345	345 130753 FRASR345		192						
							Open 130750 COOPC345	345 130753 FRASR345	345 1				-0.15474	-0.22446	-993.8	1.6
			10473	-4434.9	-1648.5		L: Interface 51 G-PUMEast			-154.0	0.0	-0.03473		0.00000	-0.3	-0.3
							C:130750 COOPC345	345 130753 FRASR345		192						
							Open 130750 COOPC345	345 130753 FRASR345	345 1				0.15474	-0.22446	-993.8	1.6



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10566	-3920.8	-1273.4		L: Interface	55 PJME-NYEnoRE		1487.8	1287.0	0.05123		0.00000	1299.4	1299.4
							C:SER:HCWC/NWES1		608							
							Open	130757 WATRC345 345 200769 HOMER CY 345 1					-0.36005	-0.12185	-547.8	-70.1
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.21507	-0.03420	40.8	174.9
			10567	-3920.8	-1273.4		L: Interface	56 NYE-PJMEEnoRE		-1487.8	-1287.0	-0.05123		0.00000	-1299.4	-1299.4
							C:SER:HCWC/NWES1		608							
							Open	130757 WATRC345 345 200769 HOMER CY 345 1					0.36005	-0.12185	-547.8	-70.1
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.21507	-0.03420	40.8	174.9
			10580	-3657.9	-1081.6		L: Interface	51 G-PJMEast		-124.9	0.0	-0.03414		0.00000	-0.3	-0.3
							C:SER:HCWC/NWES1		608							
							Open	130757 WATRC345 345 200769 HOMER CY 345 1					0.23852	-0.12185	-547.8	-102.1
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.14830	-0.03420	40.8	165.9
			10581	-3657.9	-1081.6		L: Interface	52 PJMEast-G		124.9	0.0	0.03414		0.00000	0.3	0.3
							C:SER:HCWC/NWES1		608							
							Open	130757 WATRC345 345 200769 HOMER CY 345 1					-0.23852	-0.12185	-547.8	-102.1
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.14830	-0.03420	40.8	165.9
			10594	-3465.7	-941.4		L: Interface	62 C2PMW		-513.2	0.0	-0.14808		-0.27040	-353.6	583.5
							C:ETHS/NWES/LLGD1		649							
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					-0.80842	-0.08165	116.1	399.0
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.83288	-0.03420	40.8	159.4
							Open	130807 GOUDY115 115 200680 LAUREL L 115 1					-0.85100	-0.03270	37.4	150.7
			10595	-3465.7	-941.4		L: Interface	63 PJMW2C		513.2	0.0	0.14808		0.27040	353.6	-583.5
							C:ETHS/NWES/LLGD1		649							
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					0.80842	-0.08165	116.1	399.0
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.83288	-0.03420	40.8	159.4
							Open	130807 GOUDY115 115 200680 LAUREL L 115 1					0.85100	-0.03270	37.4	150.7
			10600	-3356.9	-862		L: Interface	26 ONTARIO-MICH		758.6	0.0	0.22599		0.24500	733.8	-88.7
							C:ETHS/NWES/LLGD1		649							
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					0.12796	-0.08165	116.1	390.1
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.13032	-0.03420	40.8	155.6
							Open	130807 GOUDY115 115 200680 LAUREL L 115 1					0.12541	-0.03270	37.4	147.1
			10601	-3226.8	-767.1		L: Interface	26 ONTARIO-MICH		750.6	0.0	0.23260		0.24500	733.8	-56.8
							C:SER:ETHS/NWES1		607							
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					0.10716	-0.08165	116.1	379.5
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.10657	-0.03420	40.8	151.2
			10602	-3226.4	-766.8		L: Interface	26 ONTARIO-MICH		750.4	0.0	0.23259		0.24500	733.8	-56.7
							C:SER:C398/NWES1		606							
							Open	409 GROVER 230 200675 E.TWANDA 230 1					0.00016	0.00132	-15.5	-19.8
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					0.10740	-0.08165	116.1	379.5
							Open	381 TOWANDA 115 200675 E.TWANDA 230 1					0.00252	-0.00663	-52.6	-31.2
							Open	130836 N.WAV115 115 200676 E.SAYRE 115 1					0.10591	-0.03420	40.8	151.2
			10603	-3172.8	-727.7		L: Interface	26 ONTARIO-MICH		746.7	0.0	0.23535		0.24500	733.8	-43.5
							C:ETHS/LLGD1		650							
							Open	130763 HILSD230 230 200675 E.TWANDA 230 1					0.08358	-0.08165	116.1	375.1
							Open	130807 GOUDY115 115 200680 LAUREL L 115 1					0.08640	-0.03270	37.4	141.1
			10604	-3167.9	-724.1		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.24002		0.24500	733.8	-42.3
							C:W44LC1		643							
							Open	160062 LONGWOOD 220 160074 COWALJ44 220 1					-0.16058	0.02680	189.0	104.1
							Open	160074 COWALJ44 220 160134 BUCHJW44 220 1					0.16305	-0.00416	334.6	347.8
							Open	160054 BUCHANAN 220 160134 BUCHJW44 220 1					-0.00035	0.00416	-256.3	-269.5
							Open	160055 CHATHAM 220 160074 COWALJ44 220 1					0.71978	0.00000	3.1	3.1
			10605	-3167.7	-724		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.24002		0.24500	733.8	-42.3
							C:W45LC1		644							
							Open	160062 LONGWOOD 220 160075 COWALJ45 220 1					-0.16052	0.02677	189.0	104.2
							Open	160075 COWALJ45 220 160135 BUCHJW45 220 1					0.16299	-0.00416	334.4	347.6
							Open	160054 BUCHANAN 220 160135 BUCHJW45 220 1					-0.00035	0.00416	-262.6	-275.8
							Open	160055 CHATHAM 220 160075 COWALJ45 220 1					0.71974	0.00000	3.1	3.1
			10606	-3153	-713.2		L: Interface	26 ONTARIO-MICH		770.6	0.0	0.24441		0.24500	733.8	-38.7
							C:131128 LAPEER	345 136153 LAFAYTTE	392							
							Open	131128 LAPEER 345 136153 LAFAYTTE 345 1					-0.05454	0.01083	-675.2	-709.4
			10607	-3141.4	-704.8		L: Interface	26 ONTARIO-MICH		719.0	0.0	0.22888		0.24500	733.8	-35.9
							C:LKWANA-OXBW1		652							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 417 OXBOW 230 3070 LACKAWNA	230 1							
			10608	-3136.9	-701.5		L: Interface	26 ONTARIO-MICH		770.0	0.0	0.24546	0.11942	-0.13496	-123.7	300.3
								C:130755 OAKDL345 345 131128 LAPEER	209							
								Open 130755 OAKDL345 345 131128 LAPEER	345 1				-0.06047	-0.00769	-599.0	-574.8
			10609	-3110.9	-682.5	*	L: Interface	26 ONTARIO-MICH		746.8	0.0	0.24006		0.24500	733.8	-28.4
								C:KEY-SHELOCTA/BLAIRSVL-SOCIAL1	651							
								Open 505 SHELOCTA 230 521 KEYSTONE	230 1				0.08780	-0.04627	48.1	192.0
								Open 473 BLAIRSVL 138 235253 O1SOCIAL	138 1				0.08827	-0.00991	99.7	130.5
			12331	-2769.8	-433.7		L: Interface	55 PJME-NYEnoRE		1478.3	1287.0	0.06908		0.00000	1299.4	1299.4
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.44203	-0.12185	-547.8	-210.3
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.19985	-0.07617	264.1	475.0
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.46005	0.00000	22.7	22.7
			12332	-2769.8	-433.7		L: Interface	56 NYE-PJMENoRE		-1478.3	-1287.0	-0.06908		0.00000	-1299.4	-1299.4
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.44203	-0.12185	-547.8	-210.3
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.19985	-0.07617	264.1	475.0
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.46005	0.00000	22.7	22.7
			12343	-2557.3	-278.6		L: Interface	52 PJMEast-G		118.6	0.0	0.04637		0.00000	0.3	0.3
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.29477	-0.12185	-547.8	-236.2
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.13719	-0.07617	264.1	458.9
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.30599	0.00000	22.7	22.7
			12344	-2557.3	-278.6		L: Interface	51 G-PJMEast		-118.6	0.0	-0.04637		0.00000	-0.3	-0.3
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.29477	-0.12185	-547.8	-236.2
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.13719	-0.07617	264.1	458.9
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.30599	0.00000	22.7	22.7
			12354	-2376.1	-146.4		L: Interface	63 PJMW2C		458.4	0.0	0.19294		0.27040	353.6	-288.9
								C:SER:ETHS/NWES1	607							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.66732	-0.08165	116.1	310.1
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.67169	-0.03420	40.8	122.1
			12355	-2376.1	-146.4		L: Interface	62 C2PJMW		-458.4	0.0	-0.19294		-0.27040	-353.6	288.9
								C:SER:ETHS/NWES1	607							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				-0.66732	-0.08165	116.1	310.1
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.67169	-0.03420	40.8	122.1
			12356	-2372.5	-143.8		L: Interface	62 C2PJMW		-457.5	0.0	-0.19285		-0.27040	-353.6	287.9
								C:SER:C398/NWES1	606							
								Open 409 GROVER 230 200675 E.TWANDA	230 1				-0.00111	0.00132	-15.5	-18.7
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				-0.66891	-0.08165	116.1	309.8
								Open 381 TOWANDA 115 200675 E.TWANDA	230 1				-0.01713	-0.00663	-52.6	-36.9
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.66726	-0.03420	40.8	122.0
			12357	-2372.5	-143.8		L: Interface	63 PJMW2C		457.5	0.0	0.19285		0.27040	353.6	-287.9
								C:SER:C398/NWES1	606							
								Open 409 GROVER 230 200675 E.TWANDA	230 1				0.00111	0.00132	-15.5	-18.7
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.66891	-0.08165	116.1	309.8
								Open 381 TOWANDA 115 200675 E.TWANDA	230 1				0.01713	-0.00663	-52.6	-36.9
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.66726	-0.03420	40.8	122.0
			12369	-2102.1	53.5		L: Interface	62 C2PJMW		-437.0	0.0	-0.20787		-0.27040	-353.6	214.8
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				-0.52482	-0.08165	116.1	287.7
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				-0.60169	-0.03270	37.4	106.1
			12370	-2102.1	53.5		L: Interface	63 PJMW2C		437.0	0.0	0.20787		0.27040	353.6	-214.8
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.52482	-0.08165	116.1	287.7
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				0.60169	-0.03270	37.4	106.1
			12371	-2087.1	64.4		L: Interface	55 PJME-NYEnoRE		1451.8	1287.0	0.07898		0.00000	1299.4	1299.4
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				-0.26930	-0.29327	-566.1	46.0
			12372	-2087.1	64.4		L: Interface	56 NYE-PJMENoRE		-1451.8	-1287.0	-0.07898		0.00000	-1299.4	-1299.4
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.26930	-0.29327	-566.1	46.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12375	-1940.9	171.1		L: Interface 63 PJMW2C			524.8	0.0	0.27040		0.27040	353.6	-171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW dispatch							
			12376	-1940.9	171.1		L: Interface 62 C2PJMW			-524.8	0.0	-0.27040		-0.27040	-353.6	171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW dispatch							
			12377	-1938.6	172.8		L: Interface 63 PJMW2C			524.2	0.0	0.27043		0.27040	353.6	-170.6
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
							Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.04110	0.00039	624.3	623.5
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.04110	0.00034	543.3	542.6
							Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA						
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00036	10.7	11.4
							Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
							Open 147837 MASS230A	230 147839 MOSES E	230 1				-0.11489	0.00000	18.8	18.8
							Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
							Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA						
							Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA						
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch								
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch								
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch								
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch								
			12378	-1938.6	172.8		L: Interface 62 C2PJMW			-524.2	0.0	-0.27043		-0.27040	-353.6	170.6
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
							Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.04110	0.00039	624.3	623.5
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.04110	0.00034	543.3	542.6
							Open 156 MCY765SW	0.0 147827 MARCY765	765 1	NA						
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00036	10.7	11.4
							Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
							Open 147837 MASS230A	230 147839 MOSES E	230 1				0.11489	0.00000	18.8	18.8
							Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
							Open 158 MS765SW2	0.0 147828 MASS 765	765 1	NA						
							Open 157 MS765SW1	0.0 147828 MASS 765	765 1	NA						
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch								
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch								
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch								
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch								
			12379	-1934.9	175.4		L: Interface 51 G-PJMEast			-105.6	0.0	-0.05460		0.00000	-0.3	-0.3
							C:130753 FRASR345	345 130755 OAKDL345		200						
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.18617	-0.29327	-566.1	1.4
			12380	-1934.9	175.4		L: Interface 52 PJMEast-G			105.6	0.0	0.05460		0.00000	0.3	0.3
							C:130753 FRASR345	345 130755 OAKDL345		200						
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				-0.18617	-0.29327	-566.1	1.4
			12383	-1757.1	305.2		L: Interface 62 C2PJMW			-471.8	0.0	-0.26850		-0.27040	-353.6	121.5
							C:131128 LAPEER	345 136153 LAFAYTTE		392						
							Open 131128 LAPEER	345 136153 LAFAYTTE	345 1				0.17507	0.01083	-675.2	-694.3
			12384	-1757.1	305.2		L: Interface 63 PJMW2C			471.8	0.0	0.26850		0.27040	353.6	-121.5
							C:131128 LAPEER	345 136153 LAFAYTTE		392						
							Open 131128 LAPEER	345 136153 LAFAYTTE	345 1				-0.17507	0.01083	-675.2	-694.3
			12385	-1748	311.8		L: Interface 62 C2PJMW			-407.0	0.0	-0.23282		-0.27040	-353.6	119.1
							C:130763 HILSD230	230 200675 E.TWANDA		375						
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				-0.46019	-0.08165	116.1	258.8
			12386	-1748	311.8		L: Interface 63 PJMW2C			407.0	0.0	0.23282		0.27040	353.6	-119.1
							C:130763 HILSD230	230 200675 E.TWANDA		375						
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.46019	-0.08165	116.1	258.8
			12387	-1728.8	325.8		L: Interface 62 C2PJMW			-467.5	0.0	-0.27040		-0.27040	-353.6	113.9
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch							
			12388	-1728.8	325.8		L: Interface 63 PJMW2C			467.5	0.0	0.27040		0.27040	353.6	-113.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:GEN:SEAB&OMS1 Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	576				0.00001	0.00000	-0.1	-0.1
			12389	-1728.8	325.8	*	L: Interface	62 C2PJMW		-467.5	0.0	-0.27040		-0.27040	-353.6	113.9
								C:GEN:SEAB&OMS1 Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	576				-0.00001	0.00000	-0.1	-0.1
			12390	-1728.8	325.8	*	L: Interface	63 PJMW2C		467.5	0.0	0.27040		0.27040	353.6	-113.9
								C:GEN:SEABROOK1 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	574							
			12399	-1705.5	342.8		L: Interface	56 NYE-PJMENoRE		-1353.2	-1287.0	-0.03883		0.00000	-1299.4	-1299.4
								C:147834 NIAG 345 345 149000 ROCH 345 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	226				-0.12877	0.30159	418.2	-96.2
			12400	-1705.5	342.8		L: Interface	55 PJME-NYEnoRE		1353.2	1287.0	0.03883		0.00000	1299.4	1299.4
								C:147834 NIAG 345 345 149000 ROCH 345 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	226				0.12877	0.30159	418.2	-96.2
			12421	-1558.7	450		L: Interface	55 PJME-NYEnoRE		1367.4	1287.0	0.05159		0.00000	1299.4	1299.4
								C:130755 OAKDL345 345 130757 WATRC345 Open 130755 OAKDL345 345 130757 WATRC345 345 1	206				-0.26051	-0.19802	-261.1	47.5
			12422	-1558.7	450		L: Interface	56 NYE-PJMENoRE		-1367.4	-1287.0	-0.05159		0.00000	-1299.4	-1299.4
								C:130755 OAKDL345 345 130757 WATRC345 Open 130755 OAKDL345 345 130757 WATRC345 345 1	206				0.26051	-0.19802	-261.1	47.5
			12516	-1368.6	588.7		L: Interface	39 ZoneD-ONT		-46.4	0.0	-0.03393		0.00000	0.6	0.6
								C:147834 NIAG 345 345 149000 ROCH 345 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	226				-0.11251	0.30159	418.2	5.4
			12517	-1368.6	588.7		L: Interface	40 ONT-ZoneD		46.4	0.0	0.03393		0.00000	-0.6	-0.6
								C:147834 NIAG 345 345 149000 ROCH 345 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	226				0.11251	0.30159	418.2	5.4
			12680	-1325.8	619.9		L: Interface	52 PJMEast-G		46.4	0.0	0.03498		0.00000	0.3	0.3
								C:130755 OAKDL345 345 130757 WATRC345 Open 130755 OAKDL345 345 130757 WATRC345 345 1	206				-0.17666	-0.19802	-261.1	1.4
			12681	-1325.8	619.9		L: Interface	51 G-PJMEast		-46.4	0.0	-0.03498		0.00000	-0.3	-0.3
								C:130755 OAKDL345 345 130757 WATRC345 Open 130755 OAKDL345 345 130757 WATRC345 345 1	206				0.17666	-0.19802	-261.1	1.4
			15906	-1084.3	796.1		L: Interface	56 NYE-PJMENoRE		-1366.9	-1287.0	-0.07369		0.00000	-1299.4	-1299.4
								C:LKWANA-OXBW1 Open 417 OXBOW 230 3070 LACKAWNA 230 1	652				0.54606	-0.13496	-123.7	22.7
			15907	-1084.3	796.1		L: Interface	55 PJME-NYEnoRE		1366.9	1287.0	0.07369		0.00000	1299.4	1299.4
								C:LKWANA-OXBW1 Open 417 OXBOW 230 3070 LACKAWNA 230 1	652				-0.54606	-0.13496	-123.7	22.7
			15912	-921.2	915.1		L: Interface	52 PJMEast-G		47.3	0.0	0.05136		0.00000	0.3	0.3
								C:LKWANA-OXBW1 Open 417 OXBOW 230 3070 LACKAWNA 230 1	652				-0.38055	-0.13496	-123.7	0.7
			15913	-921.2	915.1		L: Interface	51 G-PJMEast		-47.3	0.0	-0.05136		0.00000	-0.3	-0.3
								C:LKWANA-OXBW1 Open 417 OXBOW 230 3070 LACKAWNA 230 1	652				0.38055	-0.13496	-123.7	0.7
			15914	-406.7	1290.4		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1829.3	-1725.0	-0.25640		-0.18058	-1281.5	-1208.1
								C:126294 PLTVLLEY 345 137455 ATHENS Open 126294 PLTVLLEY 345 137455 ATHENS 345 1	121				0.44120	-0.17185	-1241.5	-1171.6
			15915	-265.9	1393.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1791.3	-1725.0	-0.24932		-0.17185	-1241.5	-1195.8
								C:126294 PLTVLLEY 345 137451 LEEDS 3 Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2	120				0.42902	-0.18058	-1281.5	-1233.5
			15916	-52.9	1548.6	*	L: Interface	55 PJME-NYEnoRE		1288.6	1287.0	0.03008		0.00000	1299.4	1299.4
								C:136150 CLAY 345 149001 PANNELL3 Open 136150 CLAY 345 149001 PANNELL3 345 2	718				-0.11105	-0.27088	97.2	111.5
			15917	-52.9	1548.6	*	L: Interface	56 NYE-PJMENoRE		-1288.6	-1287.0	-0.03008		0.00000	-1299.4	-1299.4
								C:136150 CLAY 345 149001 PANNELL3 Open 136150 CLAY 345 149001 PANNELL3 345 2	718				0.11105	-0.27088	97.2	111.5
			15918	1.4	1588.2		L:146758	CHESTER 138 146771 SHOEMI38 138 1		-316.9	-317.0	-0.06251		-0.03427	-175.4	-175.4
								C:SIN:4401 Open 125001 ROCK TAV 345 126297 RAMAPO 345 1	684				-0.12684	0.22265	1116.0	1116.3
			15919	1.4	1588.2		L:146758	CHESTER 138 146771 SHOEMI38 138 1		-316.9	-317.0	-0.06251		-0.03427	-175.4	-175.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.14481	-0.12185	-547.8	-599.5
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.20651	-0.07617	264.1	231.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.14879	0.00000	22.7	22.7
			15935	423.8	1896.4		L: Interface 49 C-PJMCentral			63.8	0.0	-0.15046		-0.14855	194.3	131.3
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.14481	-0.12185	-547.8	-599.5
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.20651	-0.07617	264.1	231.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.14879	0.00000	22.7	22.7
			NA	423.8	1896.4	R	L: Interface 50 PJMCentral-C			-63.8	0.0	0.15046		0.14855	-194.3	-131.3
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.14481	-0.12185	-547.8	-599.5
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.20651	-0.07617	264.1	231.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.14879	0.00000	22.7	22.7
			15938	520.9	1967.2		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1241.5	-1331.0	-0.17185				
							Base Case									
			15939	568.8	2002.2		L:146758 CHESTER 138 146773 SGRFL138 138 1			281.4	317.0	0.06251		0.03427	139.9	159.4
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.12684	0.22265	1116.0	1242.6
			15940	568.8	2002.2		L:146758 CHESTER 138 146773 SGRFL138 138 1			281.4	317.0	0.06251		0.03427	139.9	159.4
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.12684	0.22265	1116.0	1242.6
			15941	636.3	2051.4		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1578.2	-1725.0	-0.23069		-0.18058	-1281.5	-1396.4
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						0.32994	-0.15188	-899.1	-995.8
			15942	697.2	2095.9		L: Interface 49 C-PJMCentral			103.6	0.0	-0.14855		-0.14855	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			NA	697.2	2095.9	R	L: Interface 49 C-PJMCentral			103.6	0.0	-0.14855		-0.14855	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			15943	697.2	2095.9		L: Interface 50 PJMCentral-C			-103.6	0.0	0.14855		0.14855	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			NA	697.2	2095.9	R	L: Interface 50 PJMCentral-C			-103.6	0.0	0.14855		0.14855	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			15946	772.9	2151.1		L: Interface 14 Leeds-PV			3102.0	3450.0	0.45023		0.35243	2523.0	2795.4
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						-0.64393	-0.15188	-899.1	-1016.5
			15953	894	2239.5		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17743		-0.18058	-1281.5	-1443.0
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18921	-0.01667	1505.3	1490.4
			15954	894	2239.5		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17743		-0.18058	-1281.5	-1443.0
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18921	-0.01667	1505.3	1490.4
			15957	899	2243.1		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09081		-0.05498	-445.8	-495.2
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.16092	0.22265	1116.0	1316.1
			15958	899	2243.1		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09081		-0.05498	-445.8	-495.2
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.16092	0.22265	1116.0	1316.1
			15961	916.4	2255.8		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1523.8	-1725.0	-0.21954		-0.17185	-1241.5	-1399.0
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						0.31399	-0.15188	-899.1	-1038.3
			15964	929.5	2265.4		L:146758 CHESTER 138 146771 SHOEM138 138 1			-260.5	-317.0	-0.06082		-0.03427	-175.4	-207.2
							C:125001 ROCK TAV 345 146754 MDTN TAP		9							
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.19956	-0.13308	-426.4	-550.1
			15969	949.8	2280.2		L:130750 COOPC345 345 130753 FRASR345 345 1			-993.8	-1207.0	-0.22446				
							Base Case									
			15970	983.2	2304.5		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1472.9	-1725.0	-0.25640		-0.18058	-1281.5	-1459.1
							C:137451 LEEDS 3 345 137455 ATHENS		6							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137451 LEEDS 3 345 137455 ATHENS	345 1				-0.44120	0.17185	433.7	602.7
			16001	1071.7	2369.1		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34627		0.35243	2523.0	2900.7
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					0.36927	-0.01667	1505.3	1487.5
			16002	1071.7	2369.1		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34627		0.35243	2523.0	2900.7
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					0.36927	-0.01667	1505.3	1487.5
			16011	1135.1	2415.3		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1474.9	-1725.0	-0.22033		-0.18058	-1281.5	-1486.5
							C:125000 HURLEY 3 345 125002 ROSETON		1				-0.29336	0.13551	659.1	812.9
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1						-0.17185	-1241.5	-1457.7
			16094	1258.3	2505.3		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16885				
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18006	-0.01667	1505.3	1484.4
			16095	1258.3	2505.3		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16885		-0.17185	-1241.5	-1457.7
							C:SIN:4301		683				-0.18006	-0.01667	1505.3	1484.4
							Open 125002 ROSETON 345 126281 FISHKILL	345 1						0.35243	2523.0	2973.5
			16160	1278.1	2519.7		L: Interface 14 Leeds-PV			2900.4	3450.0	0.43001				
							C:125000 HURLEY 3 345 125002 ROSETON		1				0.57252	0.13551	659.1	832.3
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1								
			NA	1298.8	2534.8	R	L: Interface 51 G-PJMEast			74.9	0.0	-0.05763		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649				0.37659	-0.08165	116.1	10.0
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.38829	-0.03420	40.8	-3.6
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.41611	-0.03270	37.4	-5.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1						0.00000	-0.3	-0.3
			16319	1298.8	2534.8	*	L: Interface 51 G-PJMEast			74.9	0.0	-0.05763		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649				0.37659	-0.08165	116.1	10.0
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.38829	-0.03420	40.8	-3.6
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.41611	-0.03270	37.4	-5.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1						0.00000	0.3	0.3
			NA	1298.8	2534.8	R	L: Interface 52 PJMEast-G			-74.9	0.0	0.05763		0.00000		
							C:ETHS/NWES/LLGD1		649				-0.37659	-0.08165	116.1	10.0
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.38829	-0.03420	40.8	-3.6
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.41611	-0.03270	37.4	-5.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1						0.00000	0.3	0.3
			16320	1298.8	2534.8	*	L: Interface 52 PJMEast-G			-74.9	0.0	0.05763		0.00000		
							C:ETHS/NWES/LLGD1		649				-0.37659	-0.08165	116.1	10.0
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.38829	-0.03420	40.8	-3.6
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.41611	-0.03270	37.4	-5.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1						0.00000	0.3	0.3
			19271	1328.5	2556.4		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09081		0.05498	445.8	518.8
							C:125001 ROCK TAV 345 126297 RAMAPO		7				0.16092	0.22265	1116.0	1411.8
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1								
			19272	1328.5	2556.4		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09081		0.05498	445.8	518.8
							C:SIN:4401		684				0.16092	0.22265	1116.0	1411.8
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1						-0.17410	-865.1	-1103.7
			19367	1370.6	2587.2		L:137451 LEEDS 3 345 137452 N.SCOT77 345 1			-1351.3	-1724.0	-0.27195		-0.17410	-865.1	-1103.7
							C:137451 LEEDS 3 345 137453 N.SCOT99		5				0.56507	-0.17315	-860.4	-1097.8
							Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2						-0.18058	-1281.5	-1529.8
			19368	1374.8	2590.2		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1430.5	-1725.0	-0.21422				
							C:130750 COOPC345 345 130753 FRASR345		192				0.14988	-0.22446	-993.8	-1302.4
							Open 130750 COOPC345 345 130753 FRASR345	345 1						-0.22446	-993.8	-1302.6
			19369	1375.7	2590.9		L:130750 COOPC345 345 130753 FRASR345 345 1			-1314.3	-1703.0	-0.28253				
							C:130750 COOPC345 345 147833 MARCY T1		196				0.43311	-0.13409	-740.0	-924.5
							Open 130750 COOPC345 345 147833 MARCY T1	345 1						-0.17315	-860.4	-1100.3
			19372	1385	2597.7		L:137451 LEEDS 3 345 137452 N.SCOT77 345 2			-1348.2	-1724.0	-0.27133		-0.17315	-860.4	-1100.3
							C:137451 LEEDS 3 345 137452 N.SCOT77		4				0.56387	-0.17410	-865.1	-1106.2
							Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1						-0.17185	-1241.5	-1487.0
			19445	1428.4	2629.4		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1425.5	-1725.0	-0.20968				
							C:125000 HURLEY 3 345 125002 ROSETON		1				-0.27917	0.13551	659.1	852.7
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1						-0.01854	-69.4	-96.6
			19452	1469.2	2659.2		L:130817 JENN 115 115 130819 KATEL115 115 1			-104.8	-159.0	-0.03689				
							C:130753 FRASR345 345 130755 OAKDL345		200							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.06258	-0.29327	-566.1	-997.0
			19453	1491	2675		L:130750	COOPC345 345 146754 MDTN TAP 345 1		1349.4	1793.0	0.29752	0.18806	0.18806	872.9	1153.3
								C:125001 ROCK TAV 345 130750 COOPC345	8							
								Open 125001 ROCK TAV 345 130750 COOPC345 345 2					-0.64201	-0.17049	-742.3	-996.5
			19462	1512.7	2690.8		L:146758	CHESTER 138 146773 SGRFL138 138 1		225.0	317.0	0.06082	0.03427	0.03427	139.9	191.7
								C:125001 ROCK TAV 345 146754 MDTN TAP	9							
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.19956	-0.13308	-426.4	-627.7
			NA	1516.1	2693.3	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14080	0.00000	0.00000	452.2	452.2
								C:SIN:1301	669							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.69167	0.23158	39.8	390.9
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			NA	1516.1	2693.3	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14080	0.00000	0.00000	-452.2	-452.2
								C:SIN:1201	668							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.69167	0.23158	39.8	390.9
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			NA	1516.1	2693.3	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14080	0.00000	0.00000	-452.2	-452.2
								C:SIN:1301	669							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.69167	0.23158	39.8	390.9
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			NA	1516.1	2693.3	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14080	0.00000	0.00000	452.2	452.2
								C:SIN:1201	668							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.13982	785.6	573.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.69167	0.23158	39.8	390.9
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			19467	1521.9	2697.6		L: Interface	14 Leeds-PV		2813.7	3450.0	0.41808	0.35243	0.35243	2523.0	3059.4
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.29251	-0.22446	-993.8	-1335.4
			19490	1591.2	2748.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		98.8	173.0	0.04666	0.03162	0.03162	77.9	128.2
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04986	0.30159	418.2	898.1
			19493	1615.7	2766		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		77.9	129.0	0.03162	0.03162	0.03162	77.9	128.2
								Base Case								
			19498	1642.7	2785.7		L: Interface	32 F-To-G		3715.6	4643.0	0.56452	0.56452	0.56452	4643.0	4643.0
								Base Case								
			19499	1669.6	2805.3		L:131018	LOUN115 115 131850 CNYOG115 115 1		44.9	143.0	0.05874	0.03769	0.03769	17.2	80.1
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.10626	-0.19802	-261.1	-591.7
			19500	1669.8	2805.5		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		92.6	159.0	0.03979	0.02697	0.02697	74.8	119.8
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04252	0.30159	418.2	921.8
			19501	1676.5	2810.3		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1383.2	-1725.0	-0.20386	-0.17185	-0.17185	-1241.5	-1529.6
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345 345 1					0.14263	-0.22446	-993.8	-1370.1



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19502	1700.2	2827.7		L:130757	WATRC345 345 200769 HOMER CY 345 1		-547.8	-755.0	-0.12185				
								Base Case								
			19503	1700.2	2827.7		L: Interface	60 C2PJMC		-547.8	-755.0	-0.12185				
								Base Case								
			19504	1700.2	2827.7		L: Interface	61 PJMC2C		547.8	755.0	0.12185				
								Base Case								
			19505	1700.2	2827.7		L: Interface	47 C-PJWest		-547.8	-755.0	-0.12185				
								Base Case								
			19506	1700.2	2827.7		L: Interface	48 PJWest-C		547.8	755.0	0.12185				
								Base Case								
			19507	1702.7	2829.5		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-43.0	-143.0	-0.05874		-0.03769	-15.2	-79.4
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.10626	-0.19802	-261.1	-598.3
			19512	1727.5	2847.5		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-553.8	-707.0	-0.08869		-0.05498	-445.8	-540.8
								C:125001 ROCK TAV 345 146754 MDTN TAP	9							
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.25331	-0.13308	-426.4	-656.3
			19513	1736	2853.7		L:130750	COOPC345 345 147833 MARCY T1 345 1		-1007.4	-1345.0	-0.19448		-0.13409	-740.0	-972.8
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				0.26903	-0.22446	-993.8	-1383.4
			19514	1742.4	2858.4		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1290.2	-1793.0	-0.28855		-0.17049	-742.3	-1039.3
								C:130750 COOPC345 345 146754 MDTN TAP	195							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.62777	0.18806	872.9	1200.5
			19515	1751.1	2864.8		L:135872	SOUR-111 115 135873 SWDN-111 115 1		89.3	159.0	0.03979		0.02697	71.5	118.8
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04252	0.30159	418.2	946.3
			19516	1759.8	2871.1		L:130817	JENN 115 115 130851 SIDNT115 115 1		51.5	120.0	0.03894		0.02166	18.1	56.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				-0.05892	-0.29327	-566.1	-1082.2
			19517	1782.6	2887.8		L: Interface	23 QFW		893.1	0.0	-0.50101		-0.49289	1095.9	217.2
								C:GEN:KINTIGH-New1	776							
								Open 130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.01155	-288.3	-308.9
								Open 130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.02312	-577.4	-618.6
		NA	1782.6	2887.8	R		L: Interface	23 QFW		893.1	0.0	-0.50101		-0.49289	1095.9	217.2
								C:GEN:KINTIGH-New1	776							
								Open 130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.01155	-288.3	-308.9
								Open 130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.02312	-577.4	-618.6
			19520	1814.1	2910.8		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		99.5	173.0	0.04052		0.03162	77.9	135.3
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.04136	0.21522	521.8	912.2
		NA	1847.8	2935.3	R		L: Interface	23 QFW		910.7	0.0	-0.49289		-0.49289	1095.9	185.2
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			19521	1847.8	2935.3		L: Interface	23 QFW		910.7	0.0	-0.49289		-0.49289	1095.9	185.2
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			19522	1863.7	2946.9		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1261.0	-1793.0	-0.28548		-0.17049	-742.3	-1060.0
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.55571	0.18806	872.9	1223.3
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.07882	-0.13308	-426.4	-674.4
			19523	1864.6	2947.6		L: Interface	23 QFW		919.4	0.0	-0.49307		-0.49289	1095.9	176.8
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1	NA							
								Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.25140	0.00039	624.3	625.0
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.25140	0.00034	543.3	543.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA							
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00036	10.7	10.0
								Open 147828 MASS 765 765 147838 MASS230B 230 1	NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
		NA	1864.6	2947.6	R	L:	Interface 23 QFW			919.4	0.0	-0.49307		-0.49289	1095.9	176.8	
							C:HQ-NY-765-Newl		777								
							Open 147827 MARCY765 765 147828 MASS 765 765 1		NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.25140	0.00039	624.3	625.0	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.25140	0.00034	543.3	543.9	
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00036	10.7	10.0	
							Open 147828 MASS 765 765 147838 MASS230B 230 1		NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.09628	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A 230 1		NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch										
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch										
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch										
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch										
19524	1890.7		2966.6			L:135862	MUMFORD1 115 135866 NLEROYTA 115 1			-83.3	-173.0	-0.04744		-0.03215	-62.1	-122.9	
							C:147834 NIAG 345 345 149000 ROCH 345		226								
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						-0.05070	0.30159	418.2	988.4	
19525	1903.4		2975.9			L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1353.5	-1725.0	-0.19516		-0.18058	-1281.5	-1625.3	
							C:SER:CMT34&MTR341		594								
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.09359	0.18806	872.9	1230.8	
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						-0.02274	-0.13308	-426.4	-679.7	
19526	1904.6		2976.8			L:135452	LOCKPORT 115 135872 SOUR-111 115 1			93.2	159.0	0.03456		0.02697	74.8	126.1	
							C:130754 KINTI345 345 149000 ROCH 345		205								
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						0.03527	0.21522	521.8	931.7	
19527	1909.2		2980.1			L:	Interface 23 QFW			941.0	0.0	-0.49289		-0.49289	1095.9	154.9	
							C:GEN:GINNA1		563								
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch										
		NA	1909.2	2980.1	R	L:	Interface 23 QFW			941.0	0.0	-0.49289		-0.49289	1095.9	154.9	
							C:GEN:GINNA1		563								
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch										
19528	1914.2		2983.8			L:130819	KATEL115 115 130838 OAKDL115 115 1			-121.4	-192.0	-0.03689		-0.01854	-86.0	-121.4	
							C:130753 FRASR345 345 130755 OAKDL345		200					0.06258	-0.29327	-566.1	-1127.5
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.19371	-0.18058	-1281.5	-1627.4	
19529	1915.4		2984.7			L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1354.0	-1725.0	-0.19371		-0.18058	-1281.5	-1627.4	
							C:130750 COOPC345 345 147833 MARCY T1		196					0.09788	-0.13409	-740.0	-996.9
							Open 130750 COOPC345 345 147833 MARCY T1 345 1							0.02683	85.9	137.7	
19530	1929.6		2995.1			L:135452	LOCKPORT 115 135876 TELRDTP1 115 1			103.6	180.0	0.03959		0.04231	0.30159	418.2	1000.1
							C:147834 NIAG 345 345 149000 ROCH 345		226								
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1							-0.74954	-0.19802	-261.1	-645.4
19531	1940.7		3003.1			L:130757	WATRC345 345 130768 WATRC230 230 1			459.8	600.0	0.07225		-0.07617	264.1	116.2	
							C:130755 OAKDL345 345 130757 WATRC345		206								
							Open 130755 OAKDL345 345 130757 WATRC345 345 1										
19532	1946.6		3007.5			L:130753	FRASR345 345 130755 OAKDL345 345 1			-762.3	-1380.0	-0.31733		-0.29327	-566.1	-1137.0	
							C:130753 FRASR345 345 137200 EDIC		202					0.27552	-0.08733	-712.0	-882.0
							Open 130753 FRASR345 345 137200 EDIC 345 1							-0.18058	-1281.5	-1634.7	
19533	1955.5		3013.9	*		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1345.1	-1725.0	-0.19427		-0.18058	-1281.5	-1634.7	
							C:130750 COOPC345 345 146754 MDTN TAP		195								
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.07280	0.18806	872.9	1240.6	
		NA	1961.8	3018.5	R	L:	Interface 23 QFW			966.9	0.0	-0.49289		-0.49289	1095.9	129.0	
							C:GEN:SEABROOK1		574								
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch										
19534	1961.8		3018.5	*		L:	Interface 23 QFW			966.9	0.0	-0.49289		-0.49289	1095.9	129.0	
							C:GEN:SEAB&OMS1		576								
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00003	0.00000	-0.1	-0.1	
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch										

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19541	1991.3	3040.1		L:135850	SOUR-114 115 135861 MORTIMER 115 1		70.5	153.0	0.04141		0.02806	52.0	107.9
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04425	0.30159	418.2	1018.7
			19542	1998.2	3045.1		L:135872	SOUR-111 115 135873 SWDN-111 115 1		89.9	159.0	0.03456		0.02697	71.5	125.4
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03527	0.21522	521.8	951.8
		NA	2024.7	3064.4	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.0	240.0	-0.03900		-0.01986	162.2	122.0
								C:125021 DC CBLTP 115 125041 N.CHELSE	29							
								Open 125021 DC CBLTP 115 125041 N.CHELSE	115 1				0.92978	-0.02058	168.6	126.9
		NA	2030.3	3068.5	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.2	240.0	-0.03900		-0.01986	162.2	121.9
								C:125020 DANSKAMA 115 125021 DC CBLTP	25							
								Open 125020 DANSKAMA 115 125021 DC CBLTP	115 1				0.92978	-0.02058	168.8	127.0
			19551	2035.3	3072.2		L:130764	MEYER230 230 131122 WTHRS230 230 1		-242.2	-430.0	-0.09230				
								Base Case								
			19556	2041.7	3076.8		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		97.8	180.0	0.04026		0.02728	79.8	135.5
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04302	0.30159	418.2	1033.9
			19558	2060.2	3090.3		L:130815	HINMN115 115 135452 LOCKPORT 115 1		191.4	280.0	0.04300		0.02789	170.5	227.9
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.05011	0.30159	418.2	1039.5
			19559	2064.9	3093.7		L: Interface	14 Leeds-FV		2663.5	3450.0	0.38087		0.35243	2523.0	3250.8
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				0.18265	0.18806	872.9	1261.2
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.04437	-0.13308	-426.4	-701.2
			19560	2068.6	3096.4		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.24633		-0.17315	-860.4	-1218.6
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				0.60778	-0.04420	-242.4	-333.8
								Open 137452 N.SCOT77 345 137516 N.SCOT1	115 1				0.40442	0.00051	113.3	114.4
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.33527	0.17141	820.4	1175.0
								Open 137450 ALPS345 345 137452 N.SCOT77	345 1				-0.26700	-0.04099	-84.4	-169.2
								Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1				0.20564	0.00000	0.0	0.0
			19564	2078.1	3103.4		L: Interface	14 Leeds-FV		2664.4	3450.0	0.37804		0.35243	2523.0	3255.4
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				-0.19102	-0.13409	-740.0	-1018.7
			19565	2080.7	3105.3		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-62.1	-129.0	-0.03215				
								Base Case								
			19567	2088.2	3110.7		L:130750	COOPC345 345 130753 FRASR345 345 1		-1076.8	-1703.0	-0.29986		-0.22446	-993.8	-1462.5
								C:130753 FRASR345 345 147831 GILB 345	203							
								Open 130753 FRASR345 345 147831 GILB 345	345 1				-0.39407	0.19135	210.7	610.3
			19570	2093.3	3114.5		L:130815	HINMN115 115 131611 HARIS115 115 1		-218.3	-306.0	-0.04188		-0.02720	-198.0	-254.9
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04868	0.30159	418.2	1049.5
			19576	2113.8	3129.4		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		445.8	562.0	0.05498				
								Base Case								
			19579	2117.8	3132.3		L: Interface	14 Leeds-FV		2647.1	3450.0	0.37915		0.35243	2523.0	3269.4
								C:130750 COOPC345 345 146754 MDTN TAP	195							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				0.14209	0.18806	872.9	1271.1
			19581	2120.4	3134.3		L:130836	N.WAV115 115 131018 LOUNIS115 115 1		48.5	173.0	0.05874		0.03769	20.7	100.6
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.19802	-261.1	-681.0
		NA	2125.7	3138.1	R		L: Interface	54 NYE-PJME		-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				0.60931	0.23158	-1041.8	-549.5
		NA	2125.7	3138.1	R		L: Interface	53 PJME-NYE		1087.0	787.0	-0.14111		0.00000	452.2	452.2
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				-0.60931	0.23158	-1041.8	-549.5
		NA	2126.8	3138.9	R		L: Interface	53 PJME-NYE		1085.6	787.0	-0.14041		0.00000	452.2	452.2
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 2				-0.62193	0.22576	-1018.5	-538.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			NA	2126.8	3138.9	R	L: Interface	54 NYE-FUME		-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 2				0.62193	0.22576	-1018.5	-538.3
			19595	2145.9	3152.8		L:130770	SHLDN230 230 131122 WTHRS230 230 1		231.9	430.0	0.09230				
								Base Case								
			19599	2158.9	3162.3		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.04121		-0.03215	-62.1	-131.5
								C:130754 KINTI345	345 149000 ROCH 345 205							
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				-0.04200	0.21522	521.8	986.4
			19605	2162.5	3164.9		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.1	-540.0	-0.10817		-0.09230	-242.2	-441.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.11956	-0.12185	-547.8	-811.3
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.03820	-0.03420	40.8	-33.1
			19607	2167.2	3168.4		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		553.8	746.0	0.08869		0.05498	445.8	564.9
								C:125001 ROCK TAV	345 146754 MDTN TAP 9							
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				-0.25331	-0.13308	-426.4	-714.8
			19608	2173.9	3173.3		L: Interface	14 Leeds-PV		2627.6	3450.0	0.37833		0.35243	2523.0	3289.2
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN	345 103117 CTNY398 345 1				0.33670	0.07693	310.6	477.8
								Open 103117 CTNY398	345 126294 PLTVLLEY 345 1				-0.23705	0.00000	0.2	0.2
			19609	2173.9	3173.3	*	L: Interface	14 Leeds-PV		2627.5	3450.0	0.37833		0.35243	2523.0	3289.2
								C:103117 CTNY398	345 126294 PLTVLLEY 362							
								Open 103117 CTNY398	345 126294 PLTVLLEY 345 1				0.33670	0.07693	310.4	477.6
			19615	2184.9	3181.3		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.10669		-0.09230	-242.2	-443.8
								C:130757 WATRC345	345 200769 HOMER CY 374							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.11817	-0.12185	-547.8	-814.1
			19643	2203.8	3195.1		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		104.2	180.0	0.03438		0.02683	85.9	145.0
								C:130754 KINTI345	345 149000 ROCH 345 205							
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				0.03510	0.21522	521.8	996.0
			19646	2204.2	3195.4		L:130764	MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.10676		-0.09230	-242.2	-445.6
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.11759	-0.12185	-547.8	-816.4
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.05270	0.00256	-35.9	-30.2
			21196	2234.6	3217.5		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.0	-1725.0	-0.18572		-0.17185	-1241.5	-1625.5
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345	345 146754 MDTN TAP 345 1				-0.08906	0.18806	872.9	1293.1
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				-0.02164	-0.13308	-426.4	-723.8
			21219	2236.5	3218.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1143.6	-1703.0	-0.25014		-0.22446	-993.8	-1495.8
								C:137451 LEEDS 3	345 147831 GILB 345 7							
								Open 137451 LEEDS 3	345 147831 GILB 345 345 1				0.16356	-0.15706	-915.6	-1266.8
			21285	2249	3228.1		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.4	-1725.0	-0.18434		-0.17185	-1241.5	-1628.0
								C:130750 COOPC345	345 147833 MARCY T1 196							
								Open 130750 COOPC345	345 147833 MARCY T1 345 1				0.09314	-0.13409	-740.0	-1041.6
			21296	2256.8	3233.8		L:130770	SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.10817		0.09230	231.9	440.2
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.11956	-0.12185	-547.8	-822.8
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				-0.03820	-0.03420	40.8	-36.3
			21300	2259.4	3235.6		L:130794	DELHI115 115 130851 SIDNT115 115 1		-33.5	-120.0	-0.03829		-0.02113	-0.4	-48.1
								C:130753 FRASR345	345 130755 OAKDL345 200							
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				0.05851	-0.29327	-566.1	-1228.7
			21302	2261	3236.8		L:130767	STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.09230				
								Base Case								
			21318	2274.8	3246.9		L:135850	SOUR-114 115 135861 MORTIMER 115 1		71.2	153.0	0.03596		0.02806	52.0	115.9
								C:130754 KINTI345	345 149000 ROCH 345 205							
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				0.03670	0.21522	521.8	1011.3
			21324	2280.5	3251		L:130770	SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.10669		0.09230	231.9	442.4
								C:130757 WATRC345	345 200769 HOMER CY 374							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.11817	-0.12185	-547.8	-825.7
			21326	2281.9	3252.1		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35855				
								Base Case								
			21331	2285.4	3254.6		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.0	180.0	0.04026		0.02729	70.0	132.4
								C:147834 NIAG 345	345 149000 ROCH 345 226							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04303	0.30159	418.2	1107.4
			21334	2288.2	3256.7		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1302.0	-1725.0	-0.18488	-0.17185	-0.17185	-1241.5	-1634.7
								C:130750 COOPC345 345 146754 MDTN TAP 195								
			21337	2296.8	3262.9		L:137453	Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.06928	0.18806	872.9	1303.2
								N:SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24427	-0.18372	-0.18372	-917.3	-1339.3
								C:SIN:1601 671								
								Open 137200 EDIC 345 137452 N:SCOT77 345 1					-0.35320	0.17141	820.4	1214.1
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00023	-0.00018	74.9	74.5
			21338	2296.8	3262.9		L:137453	N:SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24427	-0.18372	-0.18372	-917.3	-1339.3
								C:SIN:1501 670								
								Open 137200 EDIC 345 137452 N:SCOT77 345 1					-0.35320	0.17141	820.4	1214.1
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					-0.00016	-0.00011	88.8	88.6
			21339	2299.8	3265.1		L:130770	SHLDN230 230 131122 WTHRS230 230 1		294.5	540.0	0.10676	0.09230	0.09230	231.9	444.2
								C:SER:HC-WC_30&W-F_1711 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11759	-0.12185	-547.8	-828.1
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.05270	0.00256	-35.9	-30.0
			21343	2306.2	3269.8		L:135850	SOUR-114 115 135876 TELRDTP1 115 1		-84.5	-180.0	-0.04141	-0.02806	-0.02806	-66.0	-130.7
								C:147834 NIAG 345 345 149000 ROCH 345 226					-0.04425	0.30159	418.2	1113.7
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04425	0.30159	418.2	1113.7
			21348	2313.3	3275		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03356	-0.03427	-0.03427	-175.4	-254.6
								C:125002 ROSETON 345 126281 FISHKILL 10								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.04251	-0.01667	1505.3	1466.8
			21349	2313.3	3275		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03356	-0.03427	-0.03427	-175.4	-254.6
								C:SIN:4301 683								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.04251	-0.01667	1505.3	1466.8
			21358	2323.7	3282.5		L:135858	GOLAH115 115 135862 MUMFORD1 115 1		-62.8	-173.0	-0.04744	-0.03215	-0.03215	-41.6	-116.3
								C:147834 NIAG 345 345 149000 ROCH 345 226					-0.05070	0.30159	418.2	1119.0
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.30159	418.2	1119.0
			21362	2332.8	3289.2		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		98.4	180.0	0.03496	0.02728	0.02728	79.8	143.5
								C:130754 KINTI345 345 149000 ROCH 345 205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03569	0.21522	521.8	1023.8
			21373	2344.7	3297.9	*	L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1292.5	-1725.0	-0.18448	-0.17185	-0.17185	-1241.5	-1644.4
								C:SER:PV LM 3981 598								
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					-0.16418	0.07693	310.6	491.0
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					0.11559	0.00000	0.2	0.2
			21379	2349	3301		L:130753	FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.29327				
								Base Case								
			21384	2352	3303.2		L:137451	LEEDS 3 345 137452 N:SCOT77 345 1		-1185.3	-1724.0	-0.22904	-0.17410	-0.17410	-865.1	-1274.5
								C:137451 LEEDS 3 345 147831 GILB 345 7								
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34978	-0.15706	-915.6	-1285.0
			21385	2352.4	3303.5		L:135861	MORTIMER 115 135873 SWDN-111 115 1		-54.0	-153.0	-0.04210	-0.02853	-0.02853	-35.1	-102.3
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04499	0.30159	418.2	1127.6
			21388	2355.1	3305.5		L:130767	STOLE230 230 130770 SHLDN230 230 1		285.3	540.0	0.10817	0.09230	0.09230	221.3	438.7
								C:SER:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11956	-0.12185	-547.8	-834.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.03820	-0.03420	40.8	-39.7
			21389	2355.3	3305.6		L:130764	MEYER230 230 131122 WTHRS230 230 1		-272.0	-540.0	-0.11380	-0.09230	-0.09230	-242.2	-459.5
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.07130	0.30159	418.2	1128.5
			21402	2367.4	3314.5		L:147834	NIAG 345 345 149000 ROCH 345 345 1		697.9	1685.0	0.41696	0.30159	0.30159	418.2	1132.2
								C:130754 KINTI345 345 149000 ROCH 345 205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.53609	0.21522	521.8	1031.3
			21409	2379.7	3323.4		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		97.8	173.0	0.03162	0.03162	0.03162	77.9	153.2
								C:GEN:GINNA1 563								
								Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch								
			21415	2380.1	3323.7		L:130767	STOLE230 230 130770 SHLDN230 230 1		286.1	540.0	0.10669	0.09230	0.09230	221.3	441.0
								C:130757 WATRC345 345 200769 HOMER CY 374								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11817	-0.12185	-547.8	-837.8
			21417	2381	3324.4		L:131018	LOUNS115 115 131850 CNYOG115 115 1		14.5	143.0	0.05395	0.03769	0.03769	17.2	106.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:BUS:WATERCURE_3451	633								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.05666	-0.12185	-547.8	-838.0	
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.12284	-0.07617	264.1	82.7	
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.05531	0.00000	22.7	22.7	
			21418	2381.4	3324.7		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-1180.8	-1724.0	-0.22810		-0.17315	-860.4	-1272.8	
							C:137451 LEEDS 3 345 147831 GILB 345	7									
							Open 137451 LEEDS 3 345 147831 GILB 345	345 1					0.34988	-0.15706	-915.6	-1289.6	
			21420	2385.2	3327.4		E:130815 HINMNI15 115 135452 LOCKPORT 115 1		205	192.1	280.0	0.03684		0.02789	170.5	237.0	
							C:130754 KINTI345 345 149000 ROCH 345							0.04157	0.21522	521.8	1035.1
			21426	2389.3	3330.4		Open 130754 KINTI345 345 149000 ROCH 345 345 1							-0.29327	-566.1	-1266.8	
							L:130753 FRASR345 345 130755 OAKDL345 345 1			-645.1	-1380.0	-0.30758					
							C:130750 COOPC345 345 147833 MARCY T1	196									
							Open 130750 COOPC345 345 147833 MARCY T1	345 1					0.10675	-0.13409	-740.0	-1060.4	
			21432	2398.4	3337.1		E:135452 LOCKPORT 115 135876 TELRDTP1 115 1			106.2	180.0	0.03078		0.02683	85.9	150.3	
							C:135452 LOCKPORT 115 135875 TELRDTP1	600						0.26156	0.01509	77.5	113.7
							Open 135452 LOCKPORT 115 135875 TELRDTP1 115 1							0.09230	221.3	442.8	
			21433	2399.4	3337.8		L:130767 STOLE230 230 130770 SHLDN230 230 1			283.8	540.0	0.10676					
							C:SER:HC-WC_30&W-F_1711	602									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.11759	-0.12185	-547.8	-840.2	
							Open 135277 FALCONER 115 200579 WARREN 115 1						0.05270	0.00256	-35.9	-29.7	
			21439	2401.7	3339.5		L:130807 GOUDY115 115 130848 S.OWE115 115 1			-1.9	-143.0	-0.05874		-0.03769	25.8	-64.7	
							C:130755 OAKDL345 345 130757 WATRC345	206						0.10626	-0.19802	-261.1	-736.7
							Open 130755 OAKDL345 345 130757 WATRC345 345 1										
			21442	2403.6	3340.8		L:135861 MORTIMER 115 135874 SWDN-113 115 1			-50.4	-153.0	-0.04270		-0.02894	-31.3	-100.8	
							C:147834 NIAG 345 345 149000 ROCH 345	226									
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						-0.04563	0.30159	418.2	1143.1	
			21447	2405.3	3342.1		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.8	173.0	0.03540		0.03162	77.9	154.0	
							C:130764 MEYER230 230 131122 WTHRS230	221									
							Open 130764 MEYER230 230 131122 WTHRS230 230 1						-0.04101	-0.09230	-242.2	-464.1	
			21449	2405.9	3342.6		L:131018 LOUNSI115 115 131850 CNYOG115 115 1			-13.2	143.0	0.06491		0.03769	17.2	107.9	
							C:BUS:WATERCURE_2301	634									
							Open 130768 WATRC230 230 130772 SHRED230 230 1						0.24197	0.05517	73.0	205.7	
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.18210	-0.07617	264.1	80.8	
							Open 130763 HILSD230 230 130768 WATRC230 230 1						0.12851	0.00000	0.5	0.5	
			21450	2408.1	3344.1		L:130815 HINMNI115 115 135452 LOCKPORT 115 1			195.3	280.0	0.03516		0.02789	170.5	237.6	
							C:130766 ROBIN230 230 130767 STOLE230	224									
							Open 130766 ROBIN230 230 130767 STOLE230 230 1						0.26884	0.02703	92.6	157.7	
			21458	2417	3350.6		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-12.6	-143.0	-0.05395		-0.03769	-15.2	-106.3	
							C:BUS:WATERCURE_3451	633									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.05666	-0.12185	-547.8	-842.3	
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.12284	-0.07617	264.1	80.0	
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.05531	0.00000	22.7	22.7	
			21460	2417.1	3350.7		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.4	173.0	0.03540		0.03162	77.9	154.3	
							C:130770 SHLDN230 230 131122 WTHRS230	228									
							Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.04101	0.09230	231.9	455.0	
			21461	2418.8	3351.9		L:130753 FRASR345 345 130755 OAKDL345 345 1			-638.3	-1380.0	-0.30662		-0.29327	-566.1	-1275.5	
							C:SIN:1801	673									
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						0.07267	-0.18372	-917.3	-1361.7	
							Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1						-0.04703	0.00000	119.9	119.9	
							Open 137235 PORTER 1 115 147905 LLION 115 1						0.00061	-0.00011	88.8	88.6	
			21462	2418.8	3352		L:130753 FRASR345 345 130755 OAKDL345 345 1			-638.3	-1380.0	-0.30662		-0.29327	-566.1	-1275.5	
							C:SIN:1701	672									
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						0.07267	-0.18372	-917.3	-1361.7	
							Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1						-0.04710	0.00000	119.9	119.9	
							Open 137235 PORTER 1 115 137246 VALLEY 115 1						0.00092	-0.00018	74.9	74.5	
			21470	2422.8	3354.9		L:130815 HINMNI115 115 131611 HARTSI115 115 1			-219.0	-306.0	-0.03589		-0.02720	-198.0	-263.9	
							C:130754 KINTI345 345 149000 ROCH 345	205									
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.04038	0.21522	521.8	1043.2	
			21480	2429.4	3359.7		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.0	173.0	0.03540		0.03162	77.9	154.7	
							C:130767 STOLE230 230 130770 SHLDN230	226									
							Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.04101	0.09230	221.3	445.5	
			21484	2430.6	3360.5		L:130753 FRASR345 345 130755 OAKDL345 345 1			-667.2	-1380.0	-0.29327		-0.29327	-566.1	-1278.9	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			21491	2431.9	3361.5		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24300		-0.18372	-917.3	-1364.1
								C:137200 EDIC 345 137452 N.SCOT77	946							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.34584	0.17141	820.4	1237.3
			21506	2435.9	3364.4		L:130848	S.OWE115 115 131850 CNYOG115 115 1		15.1	-143.0	-0.06491		-0.03769	-15.2	-107.1
								C:BUS:WATERCURE_2301	634							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					-0.24197	0.05517	73.0	207.4
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.18210	-0.07617	264.1	78.5
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.12851	0.00000	0.5	0.5
			21545	2444.7	3370.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-631.2	-1380.0	-0.30630		-0.29327	-566.1	-1283.1
								C:137453 N.SCOT99 345 147833 MARCY T1	12							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.07093	-0.18372	-917.3	-1366.5
			21549	2445	3371.1		L:130770	SHLDN230 230 131122 WTHRS230 230 1		261.8	540.0	0.11380		0.09230	231.9	457.6
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.07130	0.30159	418.2	1155.6
			21577	2447.5	3372.9		L:130815	HINMN115 115 131611 HARIS115 115 1		-222.2	-306.0	-0.03426		-0.02720	-198.0	-284.5
								C:130766 ROBIN230 230 130767 STOLE230	224							
								Open 130766 ROBIN230 230 130767 STOLE230 230 1					-0.26115	0.02703	92.6	158.7
			21780	2454.3	3377.8		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		75.9	173.0	0.03956		0.03162	77.9	155.5
								C:130754 KINTI345 345 147834 NIAG 345	204							
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.04136	-0.19209	48.6	-422.8
			22893	2459	3381.3		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.30532		-0.29327	-566.1	-1287.2
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.17141	820.4	1241.9
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 LLION 115 1					0.00061	-0.00011	88.8	88.6
			22894	2459	3381.3		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.30532		-0.29327	-566.1	-1287.2
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.17141	820.4	1241.9
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00092	-0.00018	74.9	74.5
			22947	2461.8	3383.3		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23294		0.17141	820.4	1242.4
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18372	-917.3	-1369.6
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00024	-0.00018	74.9	74.5
			22948	2461.8	3383.3		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23294		0.17141	820.4	1242.4
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18372	-917.3	-1369.6
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 LLION 115 1					0.00016	-0.00011	88.8	88.6
			22981	2464.7	3385.4		L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.29327		-0.29327	-566.1	-1288.9
								C:GEN:SEAB&OMS1	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			22982	2464.7	3385.4	*	L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.29327		-0.29327	-566.1	-1288.9
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			23059	2480.8	3397.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		94.6	173.0	0.03162		0.03162	77.9	156.4
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			23064	2482.7	3398.5		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		83.6	159.0	0.03039		0.02697	74.8	141.7
								C:135851 SHEL-113 115 135874 SWDN-113	674							
								Open 135851 SHEL-113 115 135874 SWDN-113 115 1					0.12541	0.02729	70.0	137.7
			23091	2491.2	3404.8		L:130815	HINMN115 115 135452 LOCKPORT 115 1		191.0	280.0	0.03572		0.02789	170.5	239.9
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					-0.08488	-0.09230	-242.2	-472.1
			23094	2492.8	3406		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		84.0	159.0	0.03010		0.02697	74.8	142.0
								C:135452 LOCKPORT 115 135851 SHEL-113	596							
								Open 135452 LOCKPORT 115 135851 SHEL-113 115 1					0.11500	0.02728	79.8	147.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			23097	2497.6	3409.4		L:131018	LOUN115 115 131850 CNYOG115 115 1		28.2	143.0	0.04598		0.03769	17.2	111.3
								C:130768 WATRC230 230 130772 SHRED230	227							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				0.15025	0.05517	73.0	210.8
			23098	2497.9	3409.7		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.06589		0.00000	-452.2	-452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.42109	-0.12185	-547.8	-852.2
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.19143	-0.07617	264.1	73.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.43803	0.00000	22.7	22.7
			23099	2497.9	3409.7		L: Interface	53 PJME-NYE		622.4	787.0	0.06589		0.00000	452.2	452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.42109	-0.12185	-547.8	-852.2
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.19143	-0.07617	264.1	73.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.43803	0.00000	22.7	22.7
			23101	2498.6	3410.2		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07559		0.00000	-452.2	-452.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.25776	-0.29327	-566.1	-1298.9
			23102	2498.6	3410.2		L: Interface	53 PJME-NYE		598.1	787.0	0.07559		0.00000	452.2	452.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.25776	-0.29327	-566.1	-1298.9
			23120	2508.9	3417.7		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		83.2	159.0	0.03019		0.02697	74.8	142.4
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					-0.03497	-0.09230	-242.2	-473.7
			23125	2512.5	3420.3		L:131018	LOUN115 115 131850 CNYOG115 115 1		27.5	143.0	0.04598		0.03769	17.2	111.9
								C:SER:OAKDALE WATRC2301	595							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.15025	0.05517	73.0	211.6
								Open 130765 OAKDL230 230 130772 SHRED230 230 1		NA						
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.10159	0.00000	6.8	6.8
			23127	2514.3	3421.6		L:131018	LOUN115 115 131850 CNYOG115 115 1		47.3	143.0	0.03808		0.03769	17.2	112.0
								C:130755 OAKDL345 345 131128 LAPEER	209							
								Open 130755 OAKDL345 345 131128 LAPEER 345 1					-0.05020	-0.00769	-599.0	-618.3
			23129	2515.4	3422.4		L:131018	LOUN115 115 131850 CNYOG115 115 1		17.2	112.0	0.03769				
								Base Case								
			23130	2515.5	3422.5		L:130815	HINMN115 115 135452 LOCKPORT 115 1		190.1	280.0	0.03572		0.02789	170.5	240.6
								C:130770 SHLDN230 230 131122 WTHRS230	228							
								Open 130770 SHLDN230 230 131122 WTHRS230 230 1					0.08488	0.09230	231.9	464.1
			23136	2518.9	3425		L:131018	LOUN115 115 131850 CNYOG115 115 1		27.2	143.0	0.04598		0.03769	17.2	112.1
								C:130765 OAKDL230 230 130772 SHRED230	222							
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					-0.15025	-0.05517	-66.5	-205.4
			23137	2519	3425.1		L:135859	LAPPIN1 115 135866 NLEROVTA 115 1		85.4	173.0	0.03479		0.03162	77.9	157.6
								C:135850 SOUR-114 115 135876 TELRDTP1	673							
								Open 135850 SOUR-114 115 135876 TELRDTP1 115 1					-0.11295	-0.02806	-66.0	-136.7
			23139	2519.7	3425.6		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		100.1	180.0	0.03169		0.02683	85.9	153.5
								C:135452 LOCKPORT 115 135851 SHEL-113	596							
								Open 135452 LOCKPORT 115 135851 SHEL-113 115 1					0.17825	0.02728	79.8	148.6
			23140	2519.7	3425.6		L:131018	LOUN115 115 131850 CNYOG115 115 1		27.1	143.0	0.04598		0.03769	17.2	112.2
								C:130765 OAKDL230 230 130838 OAKDL115	223							
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					0.15025	0.05517	66.2	205.2
			23141	2520.7	3426.3		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		82.9	159.0	0.03019		0.02697	74.8	142.8
								C:130770 SHLDN230 230 131122 WTHRS230	228							
								Open 130770 SHLDN230 230 131122 WTHRS230 230 1					0.03497	0.09230	231.9	464.6
			23147	2522.9	3427.9	*	L:135859	LAPPIN1 115 135866 NLEROVTA 115 1		85.9	173.0	0.03451		0.03162	77.9	157.7
								C:135452 LOCKPORT 115 135872 SOUR-111	599							
								Open 135452 LOCKPORT 115 135872 SOUR-111 115 1					0.10725	0.02697	74.8	142.8
			23155	2528	3431.6		L:146758	CHESTER 138 146771 SHOEMI38 138 1		-175.4	-262.0	-0.03427				
								Base Case								
			23161	2529.7	3432.9		L:130815	HINMN115 115 131611 HARIS115 115 1		-217.9	-306.0	-0.03481		-0.02720	-198.0	-266.8
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					0.08245	-0.09230	-242.2	-475.6
			23165	2532.1	3434.6		L:146771	SHOEMI38 138 146772 SHOEMTAP 138 1		-445.8	-585.0	-0.05498				
								Base Case								
			23169	2533	3435.3		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		82.5	159.0	0.03019		0.02697	74.8	143.1
								C:130767 STOLE230 230 130770 SHLDN230	226							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			23170	2534.1	3436.1		L:130750	Open 130767 STOLE230 230 130770 SHLDN230 COOPC345 345 130753 FRASR345 345 1	230 1	-1092.1	-1703.0	-0.24106	0.03497	0.09230	-993.8	221.3 455.1
								C:125000 HURLEY 3 345 137451 LEEDS 3	3							
			23176	2538.4	3439.2		L:130767	Open 125000 HURLEY 3 345 137451 LEEDS 3 STOLE230 230 130770 SHLDN230 230 1 C:147834 NIAG 345 345 149000 ROCH 345	345 1	251.1	540.0	0.11380		0.09230		221.3 455.6
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.07130	0.30159	418.2	1183.7
			23177	2539.9	3440.3		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:130768 WATRC230 230 130772 SHRED230 Open 130768 WATRC230 230 130772 SHRED230	230 1	-26.2	-143.0	-0.04598		-0.03769	-15.2	-111.0
			23178	2540.7	3440.9		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:130767 STOLE230 230 130770 SHLDN230	230 1	189.2	280.0	0.03572		0.02789	170.5	241.3
								Open 130767 STOLE230 230 130770 SHLDN230	230 1				0.08488	0.09230	221.3	455.8
			23180	2542.2	3442		L:130764	MEYER230 230 131122 WTHRS230 230 1 C:130754 KINTI345 345 149000 ROCH 345	230 1	-273.0	-540.0	-0.10502		-0.09230	-242.2	-476.8
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				-0.05915	0.21522	521.8	1068.9
			23181	2542.2	3442		L:130764	MEYER230 230 131122 WTHRS230 230 1 C:BUS:WATERCURE_3451	230 1	-307.8	-540.0	-0.09136		-0.09230	-242.2	-476.8
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.06554	-0.12185	-547.8	-857.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.11714	-0.07617	264.1	70.4
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.05466	0.00000	22.7	22.7
			23187	2546.9	3445.4		L:135452	LOCKPORT 115 135872 SOUR-111 115 1 C:130754 KINTI345 345 147834 NIAG 345	115 1	73.1	159.0	0.03374		0.02697	74.8	143.5
								Open 130754 KINTI345 345 147834 NIAG 345	345 1				-0.03527	-0.19209	48.6	-440.6
			23191	2547.7	3446		L:130750	COOPC345 345 130753 FRASR345 345 1 C:126294 PLTVLLEY 345 137451 LEEDS 3	345 1	-1094.9	-1703.0	-0.23870		-0.22446	-993.8	-1565.6
								Open 126294 PLTVLLEY 345 137451 LEEDS 3	345 2				0.07887	-0.18058	-1281.5	-1741.6
			23205	2553.9	3450.5		L:130815	HINMN115 115 131611 HARSIS115 115 1 C:130770 SHLDN230 230 131122 WTHRS230	230 1	-217.1	-306.0	-0.03481		-0.02720	-198.0	-267.4
								Open 130770 SHLDN230 230 131122 WTHRS230	230 1				-0.08245	0.09230	231.9	467.7
			23206	2554.8	3451.2		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:SER:OAKDALE WATRC2301	115 1	-25.5	-143.0	-0.04598		-0.03769	-15.2	-111.5
								Open 130768 WATRC230 230 130772 SHRED230	230 1				-0.15025	0.05517	73.0	213.9
								Open 130765 OAKDL230 230 130772 SHRED230	230 1	NA						
								Open 130765 OAKDL230 230 130838 OAKDL115	115 1				0.10159	0.00000	6.8	6.8
			23216	2561.1	3455.8		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:130765 OAKDL230 230 130772 SHRED230	115 1	-25.2	-143.0	-0.04598		-0.03769	-15.2	-111.8
								Open 130765 OAKDL230 230 130772 SHRED230	230 1				0.15025	-0.05517	-66.5	-207.8
			23217	2562	3456.4		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:130765 OAKDL230 230 130838 OAKDL115	115 1	-25.2	-143.0	-0.04598		-0.03769	-15.2	-111.8
								Open 130765 OAKDL230 230 130838 OAKDL115	115 1				-0.15025	0.05517	66.2	207.6
			23218	2564	3457.9		L:131018	LOUNSI115 115 131850 CNYOG115 115 1 C:130763 HILSD230 230 130768 WATRC230	115 1	-20.9	143.0	0.06391		0.03769	17.2	113.8
								Open 130763 HILSD230 230 130768 WATRC230	230 1				0.19958	0.13134	-190.6	146.1
			23220	2565.3	3458.9		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:130755 OAKDL345 345 131128 LAPEER	115 1	-45.3	-143.0	-0.03808		-0.03769	-15.2	-111.9
								Open 130755 OAKDL345 345 131128 LAPEER	345 1				0.05020	-0.00769	-599.0	-618.7
			23223	2566.9	3460		L:130848	S.OWE115 115 131850 CNYOG115 115 1 Base Case	115 1	-15.2	-112.0	-0.03769				
			23238	2579.1	3468.9		L:130815	HINMN115 115 131611 HARSIS115 115 1 C:130767 STOLE230 230 130770 SHLDN230	115 1	-216.2	-306.0	-0.03481		-0.02720	-198.0	-268.1
								Open 130767 STOLE230 230 130770 SHLDN230	230 1				-0.08245	0.09230	221.3	459.4
			23243	2580.3	3469.7		L:130750	COOPC345 345 130753 FRASR345 345 1 C:126294 PLTVLLEY 345 137455 ATHENS	345 1	-1089.6	-1703.0	-0.23772		-0.22446	-993.8	-1573.0
								Open 126294 PLTVLLEY 345 137455 ATHENS	345 1				0.07718	-0.17185	-1241.5	-1684.9
			23249	2589.1	3476.2		L:135872	SOUR-111 115 135873 SWDN-111 115 1 C:135851 SHEL-113 115 135874 SWDN-113	115 1	80.3	159.0	0.03039		0.02697	71.5	141.4
								Open 135851 SHEL-113 115 135874 SWDN-113	115 1				0.12541	0.02729	70.0	140.6
			23252	2594.4	3480.1		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:130763 HILSD230 230 130768 WATRC230	115 1	22.8	-143.0	-0.06391		-0.03769	-15.2	-113.0
								Open 130763 HILSD230 230 130768 WATRC230	230 1				-0.19958	0.13134	-190.6	150.1
			23269	2600.3	3484.3		L:135872	SOUR-111 115 135873 SWDN-111 115 1	115 1	80.7	159.0	0.03010		0.02697	71.5	141.7



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.16119	-0.18372	-917.3	-1415.6	
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					0.03268	0.00067	120.3	122.1	
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.07200	-0.17315	-860.4	-1330.0	
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.10447	0.00000	1.6	1.6	
			24978	2715.6	3568.5		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		91.9	180.0	0.03243		0.02728	79.8	153.9	
								C:135850 SOUR-114 115 135876 TELRDTP1 673									
								Open 135850 SOUR-114 115 135876 TELRDTP1 115 1									
			24983	2717.6	3570		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-860.4	-1331.0	-0.17315		-0.02806	-66.0	-142.2	
								Base Case									
			24985	2718	3570.3		L:130770	SHLDN230 230 131122 WTHRS230 230 1		246.4	540.0	0.10803		0.09230	231.9	482.8	
								C:LKWANA-OXBWL 652									
								Open 417 OXBOW 230 3070 LACKAWNA 230 1						-0.11660	-0.13496	-123.7	-490.5
			24989	2719.6	3571.4		L:135858	GOLAH115 115 135862 MUMFORD1 115 1		-41.6	-129.0	-0.03215					
								Base Case									
			25034	2740.5	3586.7		L:130767	STOLE230 230 130770 SHLDN230 230 1		252.2	540.0	0.10502		0.09230	221.3	474.3	
								C:130754 KINTI345 345 149000 ROCH 345 205									
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.05915	0.21522	521.8	1111.6	
			25055	2749.5	3593.2		L:135861	MORTIMER 115 135874 SWDN-113 115 1		-51.0	-153.0	-0.03708		-0.02894	-31.3	-110.9	
								C:130754 KINTI345 345 149000 ROCH 345 205									
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.03785	0.21522	521.8	1113.5	
			25068	2755.6	3597.7		L:130753	FRASR345 345 137200 EDIC 345 1		-888.0	-1380.0	-0.17854		-0.08733	-712.0	-952.6	
								C:130753 FRASR345 345 130755 OAKDL345 200									
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.31098	-0.29327	-566.1	-1374.3	
			25073	2756.7	3598.5		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21633		0.22265	1116.0	1729.8	
								C:125002 ROSETON 345 126281 FISHKILL 10									
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01667	1505.3	1459.4	
			25074	2756.7	3598.5		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21633		0.22265	1116.0	1729.8	
								C:SIN:4301 683									
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01667	1505.3	1459.4	
			25137	2766.6	3605.7		L:136150	CLAY 345 137200 EDIC 345 2		770.0	1434.0	0.24002		0.18062	579.4	1079.1	
								C:136150 CLAY 345 137200 EDIC 715									
								Open 136150 CLAY 345 137200 EDIC 345 1					0.33000	0.18001	577.6	1075.6	
			25176	2770.2	3608.4		L:130767	STOLE230 230 130770 SHLDN230 230 1		286.9	540.0	0.09136		0.09230	221.3	477.0	
								C:BUS:WATERCURE_3451 633									
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.06554	-0.12185	-547.8	-885.4	
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.11714	-0.07617	264.1	53.1	
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.05466	0.00000	22.7	22.7	
			26392	2776.2	3612.7		L:130750	COOPC345 345 130753 FRASR345 345 1		-1047.7	-1703.0	-0.23605		-0.22446	-993.8	-1616.9	
								C:BUS:N.S._771 615									
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.03869	-0.04420	-242.4	-365.1	
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.01601	0.00051	113.3	114.8	
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.05550	0.17141	820.4	1296.3	
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.00921	-0.04099	-84.4	-198.2	
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01098	0.00000	0.0	0.0	
			26584	2779.7	3615.3		L:136150	CLAY 345 137200 EDIC 345 1		768.3	1434.0	0.23948		0.18001	577.6	1077.9	
								C:136150 CLAY 345 137200 EDIC 716									
								Open 136150 CLAY 345 137200 EDIC 345 2					0.32926	0.18062	579.4	1081.4	
			26661	2786.2	3620*		L:131018	LOUN5115 115 131850 CNYOG115 115 1		38.9	143.0	0.03735		0.03769	17.2	122.2	
								C:131128 LAPEER 345 136153 LAFAYTTE 392									
								Open 131128 LAPEER 345 136153 LAFAYTTE 345 1					-0.03223	0.01083	-675.2	-645.1	
			26742	2799.9	3630		L:135862	MUMFORD1 115 135866 NLEROVTA 115 1		-72.2	-173.0	-0.03600		-0.03215	-62.1	-152.1	
								C:130764 MEYER230 230 131122 WTHRS230 221									
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					0.04170	-0.09230	-242.2	-500.6	
			26812	2806	3634.4		L:130764	MEYER230 230 131343 MEYER M4 34.5 1		172.9	336.0	0.05811		0.03185	114.4	203.8	
								C:130751 CNDGUA_T 230 130761 AVOCA230 197									
								Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1					0.43445	0.06045	134.7	304.3	
			26815	2806.1	3634.5		L:130764	MEYER230 230 131343 MEYER M4 34.5 1		172.9	336.0	0.05811		0.03185	114.4	203.8	
								C:SER:MEYER_HILLS_D_681 605									
								Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1					0.43445	0.06045	134.6	304.2	
								Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1					0.38798	0.00000	0.1	0.1	
			26830	2806.9	3635.1		L: Interface	59 MarcySouthS		1935.4	3048.0	0.39639		0.35855	1733.8	2740.2	
								C:BUS:N.S._991 616									

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.09642	-0.03430	-307.4	-403.6
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.15078	-0.18372	-917.3	-1433.0
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00329	0.00067	120.3	122.2
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					-0.03947	-0.17315	-860.4	-1346.5
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.02283	0.00000	1.6	1.6
			26831	2807	3635.2		L:130764 MEYER230 230 131343 MEYER M4 34.5 1			172.9	336.0	0.05811		0.03185	114.4	203.8
							C:130761 AVOCA230 230 131154 STONY RIDGE		216							
							Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1						0.43445	0.06045	134.6	304.2
			26842	2807.4	3635.5		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-60.0	-173.0	-0.04023		-0.03215	-62.1	-152.4
							C:130754 KINTI345 345 147834 NIAG 345		204							
							Open 130754 KINTI345 345 147834 NIAG 345 345 1						0.04206	-0.19209	48.6	-490.6
			26899	2809.4	3636.9		L:130768 WATRC230 230 130772 SHRED230 230 1			140.7	440.0	0.10653		0.05517	73.0	228.0
							C:130755 OAKDL345 345 130757 WATRC345		206							
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.25937	-0.19802	-261.1	-817.4
			26973	2811.7	3638.6		L:130764 MEYER230 230 131343 MEYER M4 34.5 1			172.6	336.0	0.05811		0.03185	114.4	204.0
							C:130763 HILSD230 230 131154 STONY RIDGE		220							
							Open 130763 HILSD230 230 131154 STONY RIDGE 230 1						-0.43445	-0.06045	-133.9	-303.9
			26980	2811.7	3638.6		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-71.8	-173.0	-0.03600		-0.03215	-62.1	-152.5
							C:130770 SHLDN230 230 131122 WTHRS230		228							
							Open 130770 SHLDN230 230 131122 WTHRS230 230 1						-0.04170	0.09230	231.9	491.5
			26986	2811.8	3638.7		L:130754 KINTI345 345 149000 ROCH 345 345 1			706.1	1685.0	0.34814		0.21522	521.8	1126.9
							C:147834 NIAG 345 345 149000 ROCH 345		226							
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.44076	0.30159	418.2	1266.2
			27820	2813.9	3640.2		L:130836 N.WAV115 115 131018 LOUNSI15 115 1			-9.7	173.0	0.06491		0.03769	20.7	126.8
							C:BUS:WATERCURE 2301		634							
							Open 130768 WATRC230 230 130772 SHRED230 230 1						0.24197	0.05517	73.0	228.2
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.18210	-0.07617	264.1	49.7
							Open 130763 HILSD230 230 130768 WATRC230 230 1						0.12851	0.00000	0.5	0.5
			28105	2816.4	3642.1		L:130767 STOLE230 230 130770 SHLDN230 230 1			235.7	540.0	0.10803		0.09230	221.3	481.3
							C:LKWANA-OXBWL		652							
							Open 417 OXBOW 230 3070 LACKAWNA 230 1									
			28212	2821.6	3645.8		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-82.3	-173.0	-0.03215		-0.03215	-62.1	-152.8
							C:GEN:GINNA1		563							
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch									
			28226	2824.1	3647.6		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-71.3	-173.0	-0.03600		-0.03215	-62.1	-152.9
							C:130767 STOLE230 230 130770 SHLDN230		226							
							Open 130767 STOLE230 230 130770 SHLDN230 230 1						-0.04170	0.09230	221.3	482.0
			28276	2830.9	3652.6		L: Interface 32 F-To-G			4206.2	6118.0	0.67532		0.56452	3715.6	5313.8
							C:130750 COOPC345 345 130753 FRASR345		192							
							Open 130750 COOPC345 345 130753 FRASR345 345 1						-0.49363	-0.22446	-993.8	-1629.2
			28320	2838.3	3658	+	L:130848 S.OWE115 115 131850 CNYOG115 115 1			-37.0	-143.0	-0.03735		-0.03769	-15.2	-122.2
							C:131128 LAPEER 345 136153 LAFAYTTE		392							
							Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						0.03223	0.01083	-675.2	-644.5
			28335	2842.5	3661.1	*	L:130750 COOPC345 345 130753 FRASR345 345 1			-1027.3	-1703.0	-0.23772		-0.22446	-993.8	-1631.8
							C:137451 LEEDS 3 345 137455 ATHENS		6							
							Open 137451 LEEDS 3 345 137455 ATHENS 345 1						-0.07718	0.17185	433.7	922.2
			28359	2851.3	3667.5		L:135452 LOCKPORT 115 135876 TELRDT1 115 1			94.3	180.0	0.03004		0.02683	85.9	162.4
							C:130764 MEYER230 230 131122 WTHRS230		221							
							Open 130764 MEYER230 230 131122 WTHRS230 230 1						-0.03480	-0.09230	-242.2	-505.3
			28361	2853.3	3669		L:135452 LOCKPORT 115 135876 TELRDT1 115 1			84.2	180.0	0.03357		0.02683	85.9	162.5
							C:130754 KINTI345 345 147834 NIAG 345		204							
							Open 130754 KINTI345 345 147834 NIAG 345 345 1						-0.03510	-0.19209	48.6	-499.5
			28364	2854.9	3670.1		L:130764 MEYER230 230 131122 WTHRS230 230 1			-278.2	-540.0	-0.09172		-0.09230	-242.2	-505.6
							C:131128 LAPEER 345 136153 LAFAYTTE		392							
							Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						0.05332	0.01083	-675.2	-644.3
			28378	2861.3	3674.8		L:130794 DELHI115 115 130838 OAKDL115 115 1			-73.8	-179.0	-0.03677		-0.01947	-40.4	-96.1
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.05900	-0.29327	-566.1	-1405.3
			28382	2863.1	3676.1		L:135452 LOCKPORT 115 135876 TELRDT1 115 1			94.0	180.0	0.03004		0.02683	85.9	162.7
							C:130770 SHLDN230 230 131122 WTHRS230		228							
							Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.03480	0.09230	231.9	496.2
			28389	2870.5	3681.5		L:130765 OAKDL230 230 130772 SHRED230 230 1			-134.2	-440.0	-0.10653		-0.05517	-66.5	-224.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.25937	-0.19802	-261.1	-829.5
			28391	2871.8	3682.4		L:130836 N.WAV115 115 131018 LOUNSI15 115 1			18.1	173.0	0.05395		0.03769	20.7	129.0
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.05666	-0.12185	-547.8	-897.8
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.12284	-0.07617	264.1	45.3
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.05531	0.00000	22.7	22.7
			28392	2872.8	3683.2		L:130765 OAKDL230 230 130838 OAKDL115 115 1			134.0	440.0	0.10653		0.05517	66.2	224.7
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.25937	-0.19802	-261.1	-830.0
			28393	2875.4	3685.1		L:135452 LOCKPORT 115 135876 TELRDTP1 115 1			93.6	180.0	0.03004		0.02683	85.9	163.1
								C:130767 STOLE230 230 130770 SHLDN230	226							
								Open 130767 STOLE230 230 130770 SHLDN230	230 1				0.03480	0.09230	221.3	486.7
			28399	2879.4	3688		L:135861 MORTIMER 115 136213 LAWLER-2 115 1			63.0	159.0	0.03335		0.02332	36.6	103.8
								C:135860 LAWLER-1 115 135861 MORTIMER	689							
								Open 135860 LAWLER-1 115 135861 MORTIMER	115 1				-0.44425	-0.02257	-59.4	-124.4
			28407	2887.3	3693.8		L:130764 MEYER230 230 131343 MEYER M4 34.5 1			168.2	336.0	0.05811		0.03185	114.4	206.4
								C:130751 CNDGUA_T 230 130764 MEYER230	198							
								Open 130751 CNDGUA_T 230 130764 MEYER230	230 1				-0.43445	-0.06045	-123.8	-298.4
			28409	2888.5	3694.7		L: Interface 59 MarcySouthS			1810.7	3048.0	0.42835		0.35855	1733.8	2769.5
								C:130753 FRASR345 345 147831 GILB 345	203							
								Open 130753 FRASR345 345 147831 GILB 345	345 1				0.36478	0.19135	210.7	763.4
			28414	2891.7	3697		L:130753 FRASR345 345 147831 GILB 345 345 1			670.4	1524.0	0.29518		0.19135	210.7	764.0
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				-0.46259	-0.22446	-993.8	-1642.9
			28425	2900.6	3703.5		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.24500		-0.24500	-1506.8	-2217.4
								C:GEN:SEAB&OMS1	576							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				0.00004	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			28426	2900.6	3703.5		L: Interface 19 PJM-NY			2403.4	3114.0	0.24500		0.24500	1506.8	2217.4
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			28427	2900.6	3703.5		L: Interface 19 PJM-NY			2403.4	3114.0	0.24500		0.24500	1506.8	2217.4
								C:GEN:SEAB&OMS1	576							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			28428	2900.6	3703.5		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.24500		-0.24500	-1506.8	-2217.4
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			28430	2901.2	3703.9		L:130764 MEYER230 230 131122 WTHRS230 230 1			-239.3	-540.0	-0.10366		-0.09230	-242.2	-509.9
								C:130754 KINTI345 345 147834 NIAG 345	204							
								Open 130754 KINTI345 345 147834 NIAG 345	345 1				0.05915	-0.19209	48.6	-508.7
			28431	2901.6	3704.2		L:135452 LOCKPORT 115 135851 SHEL-113 115 1			90.8	180.0	0.03073		0.02728	79.8	159.0
								C:135452 LOCKPORT 115 135876 TELRDTP1	601							
								Open 135452 LOCKPORT 115 135876 TELRDTP1	115 1				0.12835	0.02683	85.9	163.8
			28440	2909.5	3709.9	*	L:130764 MEYER230 230 131122 WTHRS230 230 1			-217.4	-540.0	-0.11090		-0.09230	-242.2	-510.7
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.14633	-0.08165	116.1	-121.5
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.12194	-0.03420	40.8	-58.7
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				0.07591	-0.03270	37.4	-57.8
			28464	2918	3716.2		L: Interface 19 PJM-NY			2399.1	3114.0	0.24500		0.24500	1506.8	2221.7
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28465	2918	3716.2		L: Interface 35 NY-PJM			-2399.1	-3114.0	-0.24500		-0.24500	-1506.8	-2221.7
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28467	2920.7	3718.2		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-69.7	-173.0	-0.03538		-0.03215	-62.1	-156.0
								C:135850 SOUR-114 115 135876 TELRDTP1	673							
								Open 135850 SOUR-114 115 135876 TELRDTP1	115 1				0.11483	-0.02806	-66.0	-148.0
			28468	2922.7	3719.6		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1			-79.0	-173.0	-0.03215		-0.03215	-62.1	-156.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:GEN:9 MI PT21 Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch	562								
			28473	2926.1	3722.1		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130754 KINTI345 345 147834 NIAG 345 Open 130754 KINTI345 345 147834 NIAG 345 345 1	204	50.3	153.0	0.03511		0.02806	52.0	134.2	
			28475	2927.3	3722.9		L:147834	NIAG 345 345 149000 ROCH 345 345 1 Base Case		418.2	1301.0	0.30159		-0.03670	-0.19209	48.6	-513.4
			28476	2927.7	3723.2	*	L:135862	MUMFORD1 115 135866 NLEROYTA 115 1 C:135452 LOCKPORT 115 135872 SOUR-111 Open 135452 LOCKPORT 115 135872 SOUR-111 115 1	599	-70.3	-173.0	-0.03510		-0.03215	-62.1	-156.2	
			28491	2932.5	3726.8		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130764 MEYER230 230 131122 WTHRS230 Open 130764 MEYER230 230 131122 WTHRS230 230 1	221	60.9	153.0	0.03142		-0.10907	0.02697	74.8	153.7
			28505	2941.8	3733.5		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:135452 LOCKPORT 115 135464 SANBORNT Open 135452 LOCKPORT 115 135464 SANBORNT 115 1	590	188.2	280.0	0.03120		0.02789	170.5	252.5	
			28507	2942.4	3734		L: Interface	59 MarcySouthS C:BUS:N.S._771	615	1893.6	3048.0	0.39233		0.35855	1733.8	2788.8	
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1 Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1 Open 137200 EDIC 345 137452 N.SCOT77 345 1 Open 137450 ALPS345 345 137452 N.SCOT77 345 1 Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1						-0.06563	-0.04420	-242.4	-372.4
			28508	2944.4	3735.4		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130770 SHLDN230 230 131122 WTHRS230 Open 130770 SHLDN230 230 131122 WTHRS230 230 1	228	60.5	153.0	0.03142		0.02806	52.0	134.7	
			28513	2947	3737.3		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:135468 SNBRN102 115 147850 NIAG115E Open 135468 SNBRN102 115 147850 NIAG115E 115 1	626	188.7	280.0	0.03099		0.03639	0.09230	231.9	503.7
			28514	2947.2	3737.5		L:135452	LOCKPORT 115 135851 SHEL-113 115 1 C:135452 LOCKPORT 115 135872 SOUR-111 Open 135452 LOCKPORT 115 135872 SOUR-111 115 1	599	89.4	180.0	0.03074		-0.15350	-0.02018	-118.7	-178.2
			28518	2949.4	3739.1		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:135468 SNBRN102 115 135510 SHAW-102 Open 135468 SNBRN102 115 135510 SHAW-102 115 1	625	188.6	280.0	0.03099		0.02789	170.5	252.7	
			28524	2954.2	3742.6	*	L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:135464 SANBORNT 115 147850 NIAG115E Open 135464 SANBORNT 115 147850 NIAG115E 115 1	621	188.3	280.0	0.03103		0.02789	170.5	252.8	
			28530	2956.7	3744.4		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130767 STOLE230 230 130770 SHLDN230 Open 130767 STOLE230 230 130770 SHLDN230 230 1	226	60.1	153.0	0.03142		0.02806	52.0	135.0	
			28533	2959.1	3746.1		L:137453	N.SCOT99 345 147833 MARCY T1 345 1 C:BUS:N.S._771	615	-1122.6	-1792.0	-0.22621		0.03639	0.09230	221.3	494.2
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1 Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1 Open 137200 EDIC 345 137452 N.SCOT77 345 1 Open 137450 ALPS345 345 137452 N.SCOT77 345 1 Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1						-0.09197	-0.04420	-242.4	-373.2
			28537	2960.6	3747.3		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:135856 EBAT-119 115 135859 LAPPINS1 Open 135856 EBAT-119 115 135859 LAPPINS1 115 1	681	60.3	153.0	0.03131		0.02806	52.0	135.1	
			28538	2960.7	3747.3		L:135452	LOCKPORT 115 135851 SHEL-113 115 1 C:135872 SOUR-111 115 135873 SWDN-111 Open 135872 SOUR-111 115 135873 SWDN-111 115 1	706	89.0	180.0	0.03074		0.02728	79.8	160.6	
			28541	2962.6	3748.7		L:130787	CODNT115 115 130830 MONTR115 115 1 C:130755 OAKDL345 345 130757 WATRC345 Open 130755 OAKDL345 345 130757 WATRC345 345 1	206	2.4	-144.0	-0.04940		0.12819	0.02697	71.5	151.4
			28544	2966	3751.2		L: Interface	35 NY-PJM C:GEN:MILLST 31 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	573	-2387.3	-3114.0	-0.24500		-0.24500	-1506.8	-2233.5	
			28545	2966	3751.2		L: Interface	19 PJM-NY C:GEN:MILLST 31	573	2387.3	3114.0	0.24500		0.24500	1506.8	2233.5	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28546	2966	3751.2		L: Interface 35 NY-PJM			-2387.3	-3114.0	-0.24500		-0.24500	-1506.8	-2233.5
							C:GEN:MLS3&OMS1		575							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			28547	2966	3751.2		L: Interface 19 PJM-NY			2387.3	3114.0	0.24500		0.24500	1506.8	2233.5
							C:GEN:MLS3&OMS1		575							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			28549	2966.1	3751.3		L:130770 SHLDN230	230 131122 WTHRS230	230 1	268.0	540.0	0.09172		0.09230	231.9	505.7
							C:131128 LAPEER	345 136153 LAFAYTTE	345 1	392						
							Open 131128 LAPEER	345 136153 LAFAYTTE	345 1				-0.05332	0.01083	-675.2	-643.1
			28554	2968.7	3753.2		L:135850 SOUR-114	115 135861 MORTIMER	115 1	60.0	153.0	0.03131		0.02806	52.0	135.4
							C:135859 LAPPINS1	115 135866 NLEROYTA		688						
							Open 135859 LAPPINS1	115 135866 NLEROYTA	115 1				0.10273	0.03162	77.9	171.8
			28572	2973.9	3757		L:137451 LEEDS 3	345 137455 ATHENS	345 1	983.5	1725.0	0.24932		0.17185	433.7	944.8
							C:126294 PLTVLLEY	345 137451 LEEDS 3		120						
							Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2				-0.42902	-0.18058	-1281.5	-1818.6
			28576	2975.5	3758.1		L:130826 MEYER115	115 131343 MEYER M4	34.5 1	-163.5	-336.0	-0.05798		-0.03170	-104.9	-199.2
							C:130751 CNDGUA_T	230 130761 AVOCA230		197						
							Open 130751 CNDGUA_T	230 130761 AVOCA230	230 1				-0.43476	0.06045	134.7	314.6
			28578	2975.6	3758.2		L:130826 MEYER115	115 131343 MEYER M4	34.5 1	-163.5	-336.0	-0.05798		-0.03170	-104.9	-199.2
							C:SER:MEYER_HILLS_D681			605						
							Open 130761 AVOCA230	230 131154 STONY RIDGE	230 1				-0.43476	0.06045	134.6	314.4
							Open 130751 CNDGUA_T	230 130761 AVOCA230	230 1				-0.38861	0.00000	0.1	0.1
			28579	2976.4	3758.8		L:130826 MEYER115	115 131343 MEYER M4	34.5 1	-163.4	-336.0	-0.05798		-0.03170	-104.9	-199.3
							C:130761 AVOCA230	230 131154 STONY RIDGE		216						
							Open 130761 AVOCA230	230 131154 STONY RIDGE	230 1				-0.43476	0.06045	134.6	314.5
			28585	2978.3	3760.2		L:130836 N.WAV115	115 131018 LOUNIS115	115 1	-17.3	173.0	0.06391		0.03769	20.7	133.0
							C:130763 HILSD230	230 130768 WATRC230		219						
							Open 130763 HILSD230	230 130768 WATRC230	230 1				0.19958	0.13134	-190.6	200.6
			28587	2978.7	3760.4		L:137200 EDIC	345 137452 N.SCOT77	345 1	820.4	1331.0	0.17141				
							Base Case									
			28591	2980.9	3762.1		L:146769 RAMP138	138 146773 SGRFL138	138 2	-151.4	-351.0	-0.06697		-0.03511	8.3	-96.3
							C:SIN:4401			684						
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.14310	0.22265	1116.0	1779.7
			28592	2980.9	3762.1		L:146769 RAMP138	138 146773 SGRFL138	138 2	-151.4	-351.0	-0.06697		-0.03511	8.3	-96.3
							C:125001 ROCK TAV	345 126297 RAMAPO		7						
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.14310	0.22265	1116.0	1779.7
			28594	2981.1	3762.2		L:135850 SOUR-114	115 135861 MORTIMER	115 1	60.0	153.0	0.03118		0.02806	52.0	135.7
							C:135851 SHEL-113	115 135874 SWDN-113		674						
							Open 135851 SHEL-113	115 135874 SWDN-113	115 1				0.11433	0.02729	70.0	151.3
			28595	2981.1	3762.2		L:130826 MEYER115	115 131343 MEYER M4	34.5 1	-163.2	-336.0	-0.05798		-0.03170	-104.9	-199.4
							C:130763 HILSD230	230 131154 STONY RIDGE		220						
							Open 130763 HILSD230	230 131154 STONY RIDGE	230 1				0.43476	-0.06045	-133.9	-314.2
			28610	2984.2	3764.5		L:130815 HINMN115	115 131611 HARSIS115	115 1	-215.2	-306.0	-0.03042		-0.02720	-198.0	-279.1
							C:135452 LOCKPORT	115 135464 SANBORNT		590						
							Open 135452 LOCKPORT	115 135464 SANBORNT	115 1				0.15095	-0.02132	-114.3	-177.9
			28616	2985.5	3765.4		L:135452 LOCKPORT	115 135851 SHEL-113	115 1	78.1	180.0	0.03414		0.02728	79.8	161.3
							C:130754 KINTI345	345 147834 NIAG 345		204						
							Open 130754 KINTI345	345 147834 NIAG 345	345 1				-0.03569	-0.19209	48.6	-524.9
			28641	2989.8	3768.5		L:130815 HINMN115	115 131611 HARSIS115	115 1	-215.7	-306.0	-0.03021		-0.02720	-198.0	-279.3
							C:135468 SNBRN102	115 147850 NIAG115E		626						
							Open 135468 SNBRN102	115 147850 NIAG115E	115 1				0.14911	-0.02018	-118.7	-179.1
			28655	2992.2	3770.3		L:130815 HINMN115	115 131611 HARSIS115	115 1	-215.6	-306.0	-0.03021		-0.02720	-198.0	-279.4
							C:135468 SNBRN102	115 135510 SHAW-102		625						
							Open 135468 SNBRN102	115 135510 SHAW-102	115 1				-0.14911	0.02018	118.2	178.6
			28692	2996.9	3773.7	*	L:130815 HINMN115	115 131611 HARSIS115	115 1	-215.4	-306.0	-0.03025		-0.02720	-198.0	-279.5
							C:135464 SANBORNT	115 147850 NIAG115E		621						
							Open 135464 SANBORNT	115 147850 NIAG115E	115 1				0.14515	-0.02099	-119.7	-182.6
			28706	2998	3774.5		L: Interface 59 MarcySouthS			1891.8	3048.0	0.38565		0.35855	1733.8	2808.7
							C:137451 LEEDS 3	345 147831 GILB 345		7						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					-0.17257	-0.15706	-915.6	-1386.4
			28709	2998.1	3774.6	*	L:135850	SOUR-114 115 135861 MORTIMER 115 1		58.6	153.0	0.03147		0.02806	52.0	136.2
								C:135862 MUMFORD1 115 135866 NLEROYTA 698								
								Open 135862 MUMFORD1 115 135866 NLEROYTA 115 1					-0.10614	-0.03215	-62.1	-158.5
			28718	2999	3775.2		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		88.4	180.0	0.03055		0.02728	79.8	161.6
								C:130764 MEYER230 230 131122 WTHRS230 221								
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					-0.03539	-0.09230	-242.2	-518.9
			28726	2999.6	3775.7		L:130770	SHLDN230 230 131122 WTHRS230 230 1		229.1	540.0	0.10366		0.09230	231.9	508.8
								C:130754 KINTI345 345 147834 NIAG 345 204								
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.05915	-0.19209	48.6	-527.6



## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:06 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33854  
 First violation - -170576.5 MW.

Interface-1 Interface 2 WEST-CENTRAL Init.Flow= 165.39 TDF= 0.7266

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_B_EXP	GHI_IMPOR	3000.0	1	-170576	-123775		L: Interface	21 PJM-WEST		5218.1	0.0	0.03059		0.05236	5119.7	-3812.3
							C:SIN:301		666							
							Open 126260 BOWLINE1	345 146841 BOW1	NA							
							Open 126260 BOWLINE1	345 146750 WHAV345	345 10				-0.20871	0.10405	-470.6	-18219.7
							Open 126290 LADENTWN	345 146750 WHAV345	345 1				-0.00059	0.09520	-170.9	-16410.3
			2	-156492	-113542		L: Interface	21 PJM-WEST		5144.2	0.0	0.03287		0.05236	5119.7	-3074.8
							C:SER:C39		606							
							Open 409 GROVER	230 200675 E.TWANDA	230 1				0.06508	0.00131	-15.5	-220.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17331	-0.08301	116.1	13107.2
							Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01303	-0.00674	-52.6	1002.5
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.14729	-0.03464	40.8	5461.6
			3	-156285	-113391		L: Interface	21 PJM-WEST		5145.8	0.0	0.03293		0.05236	5119.7	-3064.0
							C:SER:ETH		607							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17129	-0.08301	116.1	13090.1
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.15067	-0.03464	40.8	5454.4
			4	-139326	-101068		L: Interface	21 PJM-WEST		5140.3	0.0	0.03689		0.05236	5119.7	-2175.9
							C:ETHS/LL		650							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.13790	-0.08301	116.1	11682.2
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.12173	-0.03304	37.4	4640.9
			5	-122239	-88653.5		L: Interface	21 PJM-WEST		5134.2	0.0	0.04200		0.05236	5119.7	-1281.2
							C:130763		375							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.12483	-0.08301	116.1	10263.7
			6	-114755	-83215.6		L: Interface	21 PJM-WEST		5130.8	0.0	0.04471		0.05236	5119.7	-889.3
							C:130763		219							
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.05805	0.13182	-190.6	-15318.2
			7	-112655	-81690		L: Interface	21 PJM-WEST		5137.5	0.0	0.04560		0.05236	5119.7	-779.3
							C:BUS:WAT		634							
							Open 130768 WATRC230	230 130772 SHRED230	230 1				-0.02068	0.05541	73.0	-6169.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.07347	-0.07641	264.1	8872.6
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.18954	0.00000	0.5	0.5
			8	-110049	-79796.6		L: Interface	21 PJM-WEST		5050.1	0.0	0.04589		0.05236	5119.7	-642.9
							C:MULT041		657							
							Open 9 JUNIATA	500 21 SUNBURY	500 1				-0.13385	0.04745	526.9	-4694.5
							Open 21 SUNBURY	500 3084 SUNBURY	230 24				-0.00697	0.01781	-120.9	-2081.3
			9	-108809	-78895.2		L: Interface	21 PJM-WEST		5137.5	0.0	0.04722		0.05236	5119.7	-577.9
							C:130757		213							











			3585	-5017.2	-3480.1		L: Interface 51 G-PJMEast		-239.7	0.0	-0.04777		0.00000	-0.3	-0.3		
							C:125001										
							Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		-0.21456	0.22267	1116.0	-1.2
			3610	-4873.5	-3375.7		L: Interface 56 NYE-PJMENoRE		-1498.1	-1287.0	-0.04333		0.00000	-1299.4	-1299.4		
							C:SER:HC-										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.35376	-0.12271	-547.8	50.2
							Open 135277 FALCONER	115	200579	WARREN	115	1		0.13836	0.00060	-35.9	-38.8
			3611	-4873.5	-3375.7		L: Interface 55 PJME-NYEnoRE		1498.1	1287.0	0.04333		0.00000	1299.4	1299.4		
							C:SER:HC-										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.35376	-0.12271	-547.8	50.2
							Open 135277 FALCONER	115	200579	WARREN	115	1		-0.13836	0.00060	-35.9	-38.8
			3640	-4751.1	-3286.8		L: Interface 56 NYE-PJMENoRE		-1492.4	-1287.0	-0.04322		0.00000	-1299.4	-1299.4		
							C:130757										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.35224	-0.12271	-547.8	35.2
			3641	-4751.1	-3286.8		L: Interface 55 PJME-NYEnoRE		1492.4	1287.0	0.04322		0.00000	1299.4	1299.4		
							C:130757										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.35224	-0.12271	-547.8	35.2
			3646	-4735.6	-3275.5		L: Interface 55 PJME-NYEnoRE		1475.1	1287.0	0.03973		0.00000	1299.4	1299.4		
							C:130750										
							Open 130750 COOPC345	345	130753	FRASR345	345	1		-0.17684	-0.22465	-993.8	70.0
			3647	-4735.6	-3275.5		L: Interface 56 NYE-PJMENoRE		-1475.1	-1287.0	-0.03973		0.00000	-1299.4	-1299.4		
							C:130750										
							Open 130750 COOPC345	345	130753	FRASR345	345	1		0.17684	-0.22465	-993.8	70.0
			10356	-4431.1	-3054.2		L: Interface 51 G-PJMEast		-154.0	0.0	-0.03476		0.00000	-0.3	-0.3		
							C:130750										
							Open 130750 COOPC345	345	130753	FRASR345	345	1		0.15474	-0.22465	-993.8	1.6
			10357	-4431.1	-3054.2		L: Interface 52 PJMEast-G		154.0	0.0	0.03476		0.00000	0.3	0.3		
							C:130750										
							Open 130750 COOPC345	345	130753	FRASR345	345	1		-0.15474	-0.22465	-993.8	1.6
			10566	-3890.2	-2661.2		L: Interface 55 PJME-NYEnoRE		1487.8	1287.0	0.05163		0.00000	1299.4	1299.4		
							C:SER:HCW										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.36005	-0.12271	-547.8	-70.5
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.21507	-0.03464	40.8	175.6
			10567	-3890.2	-2661.2		L: Interface 56 NYE-PJMENoRE		-1487.8	-1287.0	-0.05163		0.00000	-1299.4	-1299.4		
							C:SER:HCW										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.36005	-0.12271	-547.8	-70.5
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.21507	-0.03464	40.8	175.6
			10580	-3629.3	-2471.6		L: Interface 51 G-PJMEast		-124.9	0.0	-0.03440		0.00000	-0.3	-0.3		
							C:SER:HCW										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23852	-0.12271	-547.8	-102.5
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.14830	-0.03464	40.8	166.5
			10581	-3629.3	-2471.6		L: Interface 52 PJMEast-G		124.9	0.0	0.03440		0.00000	0.3	0.3		
							C:SER:HCW										
							Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23852	-0.12271	-547.8	-102.5
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.14830	-0.03464	40.8	166.5
			10594	-3436.9	-2331.8		L: Interface 62 C2PJMW		-513.2	0.0	-0.14932		0.00000	-353.6	586.1		
							C:ETHS/NW										
							Open 130763 HILSD230	230	200675	E.TWANDA	230	1		-0.80842	-0.08301	116.1	401.4
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.83288	-0.03464	40.8	159.9
							Open 130807 GOUDY115	115	200680	LAUREL L	115	1		-0.85100	-0.03304	37.4	150.9
			10595	-3436.9	-2331.8		L: Interface 63 PJMW2C		513.2	0.0	0.14932		0.00000	353.6	-586.1		
							C:ETHS/NW										
							Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.80842	-0.08301	116.1	401.4
							Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.83288	-0.03464	40.8	159.9
							Open 130807 GOUDY115	115	200680	LAUREL L	115	1		0.85100	-0.03304	37.4	150.9
			10600	-3157.6	-2128.9		L: Interface 26 ONTARIO-MICH		758.6	0.0	0.24026		0.00000	733.8	-85.7		
							C:ETHS/NW										
							Open 130763 HILSD230	230	200675	E.TWANDA	230	1		0.12796	-0.08301	116.1	378.2







								Open 147837 MASS230A	230	147839	MOSES E	230	1				0.11489	0.00000	18.8	18.8
								Open 147828 MASS 765	765	147837	MASS230	NA								
								Open 158 MS765SW2	0.0	147828	MASS 74	NA								
								Open 157 MS765SW1	0.0	147828	MASS 74	NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch												
								Set bus 181319	CHAT G3	120	load	to357.0	MW dispatch							
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch												
								Set bus 181419	CHAT G4	120	load	to357.0	MW dispatch							
			12380	-1917.3	-1227.7			L: Interface	63	PJMW2C			524.2	0.0	0.27343			0.27340	353.6	-170.6
								C:HQ-NY-7				777								
								Open 147827 MARCY765	765	147828	MASS 74	NA								
								Open 147828 MASS 765	765	180819	CHA-NY	NA								
								Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.04110	0.00039	624.3	623.5	
								Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.04110	0.00034	543.3	542.6	
								Open 156 MCY765SW	0.0	147827	MARCY74	NA								
								Open 147838 MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00036	10.7	11.4	
								Open 147828 MASS 765	765	147838	MASS230	NA								
								Open 147837 MASS230A	230	147839	MOSES E	230	1			-0.11489	0.00000	18.8	18.8	
								Open 147828 MASS 765	765	147837	MASS230	NA								
								Open 158 MS765SW2	0.0	147828	MASS 74	NA								
								Open 157 MS765SW1	0.0	147828	MASS 74	NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch												
								Set bus 181319	CHAT G3	120	load	to357.0	MW dispatch							
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch												
								Set bus 181419	CHAT G4	120	load	to357.0	MW dispatch							
			12381	-1738.8	-1098			L: Interface	63	PJMW2C			471.8	0.0	0.27133			0.27340	353.6	-121.8
								C:131128				392								
								Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			-0.17507	0.01183	-675.2	-695.8	
			12382	-1738.8	-1098			L: Interface	62	C2PJMW			-471.8	0.0	-0.27133			-0.27340	-353.6	121.8
								C:131128				392								
								Open 131128 LAPEER	345	136153	LAFAYTTE	345	1			0.17507	0.01183	-675.2	-695.8	
			12383	-1730.4	-1091.9			L: Interface	63	PJMW2C			407.0	0.0	0.23520			0.27340	353.6	-119.5
								C:130763				375								
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			0.46019	-0.08301	116.1	259.7	
			12384	-1730.4	-1091.9			L: Interface	62	C2PJMW			-407.0	0.0	-0.23520			-0.27340	-353.6	119.5
								C:130763				375								
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			-0.46019	-0.08301	116.1	259.7	
			12387	-1709.8	-1077			L: Interface	62	C2PJMW			-467.5	0.0	-0.27340			-0.27340	-353.6	113.9
								C:GEN:SEA				574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
			12388	-1709.8	-1077	*		L: Interface	62	C2PJMW			-467.5	0.0	-0.27340			-0.27340	-353.6	113.9
								C:GEN:SEA				576								
								Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00001	0.00000	-0.1	-0.1	
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
			12389	-1709.8	-1077			L: Interface	63	PJMW2C			467.5	0.0	0.27340			0.27340	353.6	-113.9
								C:GEN:SEA				576								
								Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00001	0.00000	-0.1	-0.1	
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
			12390	-1709.8	-1077	*		L: Interface	63	PJMW2C			467.5	0.0	0.27340			0.27340	353.6	-113.9
								C:GEN:SEA				574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch												
			12393	-1697.3	-1067.8			L: Interface	56	NYE-PJMENoRE			-1353.2	-1287.0	-0.03902			0.00000	-1299.4	-1299.4
								C:147834				226								
								Open 147834 NIAG 345	345	149000	ROCH 345	345	1			-0.12877	0.30306	418.2	-96.2	
			12394	-1697.3	-1067.8			L: Interface	55	PJME-NYEnoRE			1353.2	1287.0	0.03902			0.00000	1299.4	1299.4
								C:147834				226								
								Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.12877	0.30306	418.2	-96.2	
			12421	-1550.1	-960.9			L: Interface	56	NYE-PJMENoRE			-1367.4	-1287.0	-0.05187			0.00000	-1299.4	-1299.4

						C:130755			206													
						Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.26051	-0.19912	-261.1	47.5						
		12422	-1550.1	-960.9		L: Interface 55 PJME-NYEnoRE				1367.4	1287.0	0.05187	0.00000	1299.4	1299.4							
						C:130755			206													
						Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.26051	-0.19912	-261.1	47.5						
		12508	-1361.9	-824.2		L: Interface 39 ZoneD-ONT				-46.4	0.0	-0.03410	0.00000	0.6	0.6							
						C:147834			226													
						Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.11251	0.30306	418.2	5.4						
		12509	-1361.9	-824.2		L: Interface 40 ONT-ZoneD				46.4	0.0	0.03410	0.00000	-0.6	-0.6							
						C:147834			226													
						Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.11251	0.30306	418.2	5.4						
		12640	-1318.5	-792.6		L: Interface 52 PJMEast-G				46.4	0.0	0.03518	0.00000	0.3	0.3							
						C:130755			206													
						Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.17666	-0.19912	-261.1	1.4						
		12641	-1318.5	-792.6		L: Interface 51 G-PJMEast				-46.4	0.0	-0.03518	0.00000	-0.3	-0.3							
						C:130755			206													
						Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.17666	-0.19912	-261.1	1.4						
		15906	-1067.1	-610		L: Interface 56 NYE-PJMEoRE				-1366.9	-1287.0	-0.07488	0.00000	-1299.4	-1299.4							
						C:LKWANA			652													
						Open 417 OXBOW	230	3070	LACKAWNA	230	1		0.54606	-0.13713	-123.7	22.7						
		15907	-1067.1	-610		L: Interface 55 PJME-NYEnoRE				1366.9	1287.0	0.07488	0.00000	1299.4	1299.4							
						C:LKWANA			652													
						Open 417 OXBOW	230	3070	LACKAWNA	230	1		-0.54606	-0.13713	-123.7	22.7						
		15912	-906.6	-493.3		L: Interface 51 G-PJMEast				-47.3	0.0	-0.05218	0.00000	-0.3	-0.3							
						C:LKWANA			652													
						Open 417 OXBOW	230	3070	LACKAWNA	230	1		0.38055	-0.13713	-123.7	0.7						
		15913	-906.6	-493.3		L: Interface 52 PJMEast-G				47.3	0.0	0.05218	0.00000	0.3	0.3							
						C:LKWANA			652													
						Open 417 OXBOW	230	3070	LACKAWNA	230	1		-0.38055	-0.13713	-123.7	0.7						
		15914	-406.8	-130.2		L:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1829.3	-1725.0	-0.25638	-0.18057	-1281.5	-1208.1					
						C:126294			121													
						Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.44120	-0.17184	-1241.5	-1171.6						
		15915	-265.9	-27.8		L:126294 PLTVLLEY	345	137455	ATHENS	345	1	-1791.3	-1725.0	-0.24930	-0.17184	-1241.5	-1195.8					
						C:126294			120													
						Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		0.42902	-0.18057	-1281.5	-1233.5						
		15916	1.4	166.4		L:146758 CHESTER	138	146771	SHOEM138	138	1	-316.9	-317.0	-0.06251	-0.03427	-175.4	-175.4					
						C:SIN:440			684													
						Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		-0.12684	0.22267	1116.0	1116.3						
		15917	1.4	166.4		L:146758 CHESTER	138	146771	SHOEM138	138	1	-316.9	-317.0	-0.06251	-0.03427	-175.4	-175.4					
						C:125001			7													
						Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		-0.12684	0.22267	1116.0	1116.3						
		NA	96.9	235.8	R	L:125021 DC CBLTP	115	125041	N.CHELSE	115	1	319.8	316.0	-0.03910	-0.02058	168.6	166.6					
						C:125015			16													
						Open 125015 AC CBLTP	115	125041	N.CHELSE	115	1		0.93208	-0.01986	162.2	160.3						
		NA	104.7	241.5	R	L:125021 DC CBLTP	115	125041	N.CHELSE	115	1	320.1	316.0	-0.03910	-0.02058	168.6	166.4					
						C:125015			15													
						Open 125015 AC CBLTP	115	125020	DANSKAMA	115	1		-0.93208	0.01986	-162.5	-160.5						
		15918	273.9	364.4		L:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1281.5	-1331.0	-0.18057								
						Base Case																
		15919	340.1	412.5		L: Interface 49 C-PJMCentral				61.2	0.0	-0.17990	-0.15070	194.3	143.0							
						C:SER:HC			602													
						Open 130757 WATRC345	345	200769	HOMER CY	345	1		0.23835	-0.12271	-547.8	-589.6						
						Open 135277 FALCONER	115	200579	WARREN	115	1		0.06948	0.00060	-35.9	-35.7						
		15921	340.1	412.5		L: Interface 50 PJMCentral-C				-61.2	0.0	0.17990	0.15070	-194.3	-143.0							
						C:SER:HC			602													
						Open 130757 WATRC345	345	200769	HOMER CY	345	1		-0.23835	-0.12271	-547.8	-589.6						
						Open 135277 FALCONER	115	200579	WARREN	115	1		-0.06948	0.00060	-35.9	-35.7						
		NA	340.1	412.5	R	L: Interface 49 C-PJMCentral				61.2	0.0	-0.17990	-0.15070	194.3	143.0							

							C:SER:HC-	602											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.23835	-0.12271	-547.8	-589.6		
							Open 135277 FALCONER	115	200579	WARREN		115	1	0.06948	0.00060	-35.9	-35.7		
		NA	340.1	412.5	R		L: Interface 50 PJMCentral-C							-61.2	0.0	0.17990	0.15070	-194.3	-143.0
							C:SER:HC-	602											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.23835	-0.12271	-547.8	-589.6		
							Open 135277 FALCONER	115	200579	WARREN		115	1	-0.06948	0.00060	-35.9	-35.7		
		NA	342.4	414.2	R		L: Interface 50 PJMCentral-C							-57.1	0.0	0.16680	0.15070	-194.3	-142.7
							C:SER:HCW	608											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.22548	-0.12271	-547.8	-589.8		
							Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	0.33373	-0.03464	40.8	29.0		
		15925	342.4	414.2			L: Interface 50 PJMCentral-C							-57.1	0.0	0.16680	0.15070	-194.3	-142.7
							C:SER:HCW	608											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.22548	-0.12271	-547.8	-589.8		
							Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	0.33373	-0.03464	40.8	29.0		
		15926	342.4	414.2			L: Interface 49 C-PJMCentral							57.1	0.0	-0.16680	-0.15070	194.3	142.7
							C:SER:HCW	608											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.22548	-0.12271	-547.8	-589.8		
							Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	-0.33373	-0.03464	40.8	29.0		
		NA	342.4	414.2	R		L: Interface 49 C-PJMCentral							57.1	0.0	-0.16680	-0.15070	194.3	142.7
							C:SER:HCW	608											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.22548	-0.12271	-547.8	-589.8		
							Open 130836 N.WAV115	115	200676	E.SAYRE		115	1	-0.33373	-0.03464	40.8	29.0		
		15929	356.4	424.4			L: Interface 49 C-PJMCentral							64.1	0.0	-0.17985	-0.15070	194.3	140.6
							C:130757	374											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.23759	-0.12271	-547.8	-591.6		
		NA	356.4	424.4	R		L: Interface 49 C-PJMCentral							64.1	0.0	-0.17985	-0.15070	194.3	140.6
							C:130757	374											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.23759	-0.12271	-547.8	-591.6		
		NA	356.4	424.4	R		L: Interface 50 PJMCentral-C							-64.1	0.0	0.17985	0.15070	-194.3	-140.6
							C:130757	374											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.23759	-0.12271	-547.8	-591.6		
		15930	356.4	424.4			L: Interface 50 PJMCentral-C							-64.1	0.0	0.17985	0.15070	-194.3	-140.6
							C:130757	374											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.23759	-0.12271	-547.8	-591.6		
		15931	394.3	451.9			L: Interface 14 Leeds-PV							2523.0	2662.0	0.35241			
							Base Case												
		NA	417.6	468.8	R		L: Interface 49 C-PJMCentral							63.8	0.0	-0.15268	-0.15070	194.3	131.3
							C:BUS:WAT	633											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.14481	-0.12271	-547.8	-599.1		
							Open 130757 WATRC345	345	130768	WATRC230		230	1	-0.20651	-0.07641	264.1	232.2		
							Open 130755 OAKDL345	345	130757	WATRC345		345	1	0.14879	0.00000	22.7	22.7		
		15932	417.6	468.8			L: Interface 50 PJMCentral-C							-63.8	0.0	0.15268	0.15070	-194.3	-131.3
							C:BUS:WAT	633											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.14481	-0.12271	-547.8	-599.1		
							Open 130757 WATRC345	345	130768	WATRC230		230	1	0.20651	-0.07641	264.1	232.2		
							Open 130755 OAKDL345	345	130757	WATRC345		345	1	-0.14879	0.00000	22.7	22.7		
		15933	417.6	468.8			L: Interface 49 C-PJMCentral							63.8	0.0	-0.15268	-0.15070	194.3	131.3
							C:BUS:WAT	633											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	0.14481	-0.12271	-547.8	-599.1		
							Open 130757 WATRC345	345	130768	WATRC230		230	1	-0.20651	-0.07641	264.1	232.2		
							Open 130755 OAKDL345	345	130757	WATRC345		345	1	0.14879	0.00000	22.7	22.7		
		NA	417.6	468.8	R		L: Interface 50 PJMCentral-C							-63.8	0.0	0.15268	0.15070	-194.3	-131.3
							C:BUS:WAT	633											
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1	-0.14481	-0.12271	-547.8	-599.1		
							Open 130757 WATRC345	345	130768	WATRC230		230	1	0.20651	-0.07641	264.1	232.2		
							Open 130755 OAKDL345	345	130757	WATRC345		345	1	-0.14879	0.00000	22.7	22.7		
		15936	520.9	543.9			L:126294 PLTVLLEY	345	137455	ATHENS		345	1	-1241.5	-1331.0	-0.17184			



								Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.36927	-0.01665	1505.3	1487.5
		16002	1071.7	944.1				L: Interface 14 Leeds-PV					3078.9	3450.0	0.34626		0.35241	2523.0	2900.7	
								C:SIN:430			683									
								Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.36927	-0.01665	1505.3	1487.5
		16011	1135.2	990.2				L:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1474.9	-1725.0	-0.22032		-0.18057	-1281.5	-1486.5
								C:125000			1									
								Open 125000 HURLEY 3	345	125002	ROSETON	345	1				-0.29336	0.13549	659.1	812.9
		16152	1258.4	1079.7				L:126294 PLTVLLEY	345	137455	ATHENS	345	1	-1512.5	-1725.0	-0.16884		-0.17184	-1241.5	-1457.7
								C:125002			10									
								Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18006	-0.01665	1505.3	1484.4
		16153	1258.4	1079.7				L:126294 PLTVLLEY	345	137455	ATHENS	345	1	-1512.5	-1725.0	-0.16884		-0.17184	-1241.5	-1457.7
								C:SIN:430			683									
								Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.18006	-0.01665	1505.3	1484.4
		16272	1278.2	1094.1				L: Interface 14 Leeds-PV					2900.4	3450.0	0.42998		0.35241	2523.0	2973.5	
								C:125000			1									
								Open 125000 HURLEY 3	345	125002	ROSETON	345	1				0.57252	0.13549	659.1	832.3
		NA	1280.5	1095.8	R			L: Interface 52 PJMEast-G					-74.9	0.0	0.05846		0.00000	0.3	0.3	
								C:ETHS/NW			649									
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.37659	-0.08301	116.1	9.8
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.38829	-0.03464	40.8	-3.5
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.41611	-0.03304	37.4	-4.9
		NA	1280.5	1095.8	R			L: Interface 51 G-PJMEast					74.9	0.0	-0.05846		0.00000	-0.3	-0.3	
								C:ETHS/NW			649									
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.37659	-0.08301	116.1	9.8
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.38829	-0.03464	40.8	-3.5
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.41611	-0.03304	37.4	-4.9
		16323	1280.5	1095.8	*			L: Interface 52 PJMEast-G					-74.9	0.0	0.05846		0.00000	0.3	0.3	
								C:ETHS/NW			649									
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1				-0.37659	-0.08301	116.1	9.8
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.38829	-0.03464	40.8	-3.5
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1				-0.41611	-0.03304	37.4	-4.9
		16324	1280.5	1095.8	*			L: Interface 51 G-PJMEast					74.9	0.0	-0.05846		0.00000	-0.3	-0.3	
								C:ETHS/NW			649									
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1				0.37659	-0.08301	116.1	9.8
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.38829	-0.03464	40.8	-3.5
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1				0.41611	-0.03304	37.4	-4.9
		19341	1328.3	1130.6				L:146754 MDIN TAP	345	146772	SHOEMTAP	138	1	625.4	746.0	0.09082		0.05499	445.8	518.8
								C:125001			7									
								Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.16092	0.22267	1116.0	1411.8
		19342	1328.3	1130.6				L:146754 MDIN TAP	345	146772	SHOEMTAP	138	1	625.4	746.0	0.09082		0.05499	445.8	518.8
								C:SIN:440			684									
								Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.16092	0.22267	1116.0	1411.8
		19375	1371.2	1161.7				L:137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1351.3	-1724.0	-0.27184		-0.17403	-865.1	-1103.7
								C:137451			5									
								Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.56507	-0.17308	-860.4	-1097.8
		19384	1374.7	1164.2				L:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1430.5	-1725.0	-0.21424		-0.18057	-1281.5	-1529.8
								C:130750			192									
								Open 130750 COOPC345	345	130753	FRASR345	345	1				0.14988	-0.22465	-993.8	-1302.6
		19385	1375	1164.5				L:130750 COOPC345	345	130753	FRASR345	345	1	-1314.3	-1703.0	-0.28267		-0.22465	-993.8	-1302.7
								C:130750			196									
								Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.43311	-0.13397	-740.0	-924.2
		19404	1385.6	1172.2				L:137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1348.2	-1724.0	-0.27122		-0.17308	-860.4	-1100.3
								C:137451			4									
								Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.56387	-0.17403	-865.1	-1106.2
		19449	1428.5	1203.4				L:126294 PLTVLLEY	345	137455	ATHENS	345	1	-1425.5	-1725.0	-0.20966		-0.17184	-1241.5	-1487.0
								C:125000			1									
								Open 125000 HURLEY 3	345	125002	ROSETON	345	1				-0.27917	0.13549	659.1	852.7
		19452	1464.1	1229.2				L:130817 JENN 115	115	130819	KATEL115	115	1	-104.8	-159.0	-0.03702		-0.01862	-69.4	-96.6

							C:130753				200							
							Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.06258	-0.29399	-566.1	-996.5	
		19461	1490.7	1248.5			L:130750 COOPC345	345	146754	MDTN TAP	345	1	1349.4	1793.0	0.29757	0.18810	872.9	1153.3
							C:125001					8						
							Open 125001 ROCK TAV	345	130750	COOPC345	345	2		-0.64201	-0.17052	-742.3	-996.5	
		19474	1512.4	1264.3			L:146758 CHESTER	138	146773	SGRRLF138	138	1	225.0	317.0	0.06083	0.03427	139.9	191.7
							C:125001					9						
		NA	1516.1	1267	R		Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		-0.19956	-0.13311	-426.4	-627.7	
							L: Interface 54 NYE-PJME						-1000.5	-787.0	0.14080	0.00000	-452.2	-452.2
							C:SIN:130					669						
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		0.69167	0.23158	39.8	390.9	
							Open 126263 BUCHANAN S	345	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch								
		NA	1516.1	1267	R		L: Interface 53 PJME-NYE						1000.5	787.0	-0.14080	0.00000	452.2	452.2
							C:SIN:120					668						
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		-0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.69167	0.23158	39.8	390.9	
							Open 126263 BUCHANAN S	345	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch								
		NA	1516.1	1267	R		L: Interface 53 PJME-NYE						1000.5	787.0	-0.14080	0.00000	452.2	452.2
							C:SIN:130					669						
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		-0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		-0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.69167	0.23158	39.8	390.9	
							Open 126263 BUCHANAN S	345	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch								
		NA	1516.1	1267	R		L: Interface 54 NYE-PJME						-1000.5	-787.0	0.14080	0.00000	-452.2	-452.2
							C:SIN:120					668						
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.06930	-0.13981	785.6	573.6	
							Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		0.69167	0.23158	39.8	390.9	
							Open 126263 BUCHANAN S	345	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Open 147798 IP#3 GEN	22.0	147832	IP3 345	NA							
							Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch								
		19485	1521.8	1271.1			L: Interface 14 Leeds-PV						2813.7	3450.0	0.41812	0.35241	2523.0	3059.3
							C:130750					192						
							Open 130750 COOPC345	345	130753	FRASR345	345	1		-0.29251	-0.22465	-993.8	-1335.7	
		19494	1611	1336			L:135859 LAPPINS1	115	135866	NLEROYTA	115	1	98.8	173.0	0.04608	0.03097	77.9	127.8
							C:147834					226						
							Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04986	0.30306	418.2	906.4	
		19497	1642.9	1359.1			L: Interface 32 F-To-G						3715.6	4643.0	0.56447			
							Base Case											
		19498	1649.5	1363.9			L:135859 LAPPINS1	115	135866	NLEROYTA	115	1	77.9	129.0	0.03097			
							Base Case											
		19499	1659.9	1371.5			L:131018 LOUNSI15	115	131850	CNYOG115	115	1	44.9	143.0	0.05908	0.03792	17.2	80.1
							C:130755					206						
							Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.10626	-0.19912	-261.1	-591.6	
		19500	1668.2	1377.5			L: Interface 23 QFW						893.1	0.0	-0.53539	-0.53155	1095.9	209.2

							C:GEN:KIN			776												
							Open 130754 KINTI345	345	130873	KINTIG24	24.0	1		0.00000	-0.00545	-288.3	-297.4					
							Open 130754 KINTI345	345	130873	KINTIG24	24.0	2		0.35118	-0.01092	-577.4	-595.6					
		NA	1668.2	1377.5	R		L: Interface 23 QFW				893.1	0.0	-0.53539		-0.53155	1095.9	209.2					
							C:GEN:KIN			776												
							Open 130754 KINTI345	345	130873	KINTIG24	24.0	1		0.00000	-0.00545	-288.3	-297.4					
							Open 130754 KINTI345	345	130873	KINTIG24	24.0	2		0.35118	-0.01092	-577.4	-595.6					
		19501	1676.3	1383.4			L:126294 PLTVLLEY	345	137455	ATHENS	345	1	-1383.2	-1725.0	-0.20388		-0.17184	-1241.5	-1529.5			
							C:130750			192												
							Open 130750 COOPC345	345	130753	FRASR345	345	1		0.14263	-0.22465	-993.8	-1370.4					
		19502	1688.4	1392.2			L:130757 WATRC345	345	200769	HOMER CY	345	1	-547.8	-755.0	-0.12271							
							Base Case															
		19503	1688.4	1392.2			L: Interface 47 C-PJMWest						-547.8	-755.0	-0.12271							
							Base Case															
		19504	1688.4	1392.2			L: Interface 61 PJMC2C						547.8	755.0	0.12271							
							Base Case															
		19505	1688.4	1392.2			L: Interface 60 C2PJMC						-547.8	-755.0	-0.12271							
							Base Case															
		19506	1688.4	1392.2			L: Interface 48 PJMWest-C						547.8	755.0	0.12271							
							Base Case															
		19507	1692.8	1395.4			L:130848 S.OWE115	115	131850	CNYOG115	115	1	-43.0	-143.0	-0.05908		-0.03792	-15.2	-79.4			
							C:130755			206												
							Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.10626	-0.19912	-261.1	-598.2					
		19512	1698.6	1399.6			L:135452 LOCKPORT	115	135872	SOUR-111	115	1	92.6	159.0	0.03912		0.02623	74.8	119.3			
							C:147834			226												
							Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04252	0.30306	418.2	932.9					
		19513	1713.4	1410.3			L: Interface 23 QFW						910.7	0.0	-0.53155		-0.53155	1095.9	185.2			
							C:GEN:9 M			562												
		NA	1713.4	1410.3	R		Remove unit 2 from bus 136700 9M PT 2G			25.0	1198.7	MW dispatch										
							L: Interface 23 QFW						910.7	0.0	-0.53155		-0.53155	1095.9	185.2			
							C:GEN:9 M			562												
							Remove unit 2 from bus 136700 9M PT 2G			25.0	1198.7	MW dispatch										
		19514	1727.2	1420.4			L:146771 SHOEM138	138	146772	SHOEMTAP	138	1	-553.8	-707.0	-0.08871		-0.05499	-445.8	-540.8			
							C:125001			9												
							Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.25331	-0.13311	-426.4	-656.3					
		19515	1729	1421.7			L: Interface 23 QFW						919.4	0.0	-0.53174		-0.53155	1095.9	176.8			
							C:HQ-NY-7			777												
							Open 147827 MARCY765	765	147828	MASS 765	NA											
							Open 147828 MASS 765	765	180819	CHA-NY	NA											
							Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.25140	0.00039	624.3	624.9					
							Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.25140	0.00034	543.3	543.9					
							Open 156 MCY765SW	0.0	147827	MARCY765	NA											
							Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00036	10.7	10.1					
							Open 147828 MASS 765	765	147838	MASS230	NA											
							Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.09628	0.00000	18.8	18.8					
							Open 147828 MASS 765	765	147837	MASS230	NA											
							Open 158 MS765SW2	0.0	147828	MASS 765	NA											
							Open 157 MS765SW1	0.0	147828	MASS 765	NA											
							Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch											
							Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch											
							Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch											
							Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch											
		NA	1729	1421.7	R		L: Interface 23 QFW						919.4	0.0	-0.53174		-0.53155	1095.9	176.8			
							C:HQ-NY-7			777												
							Open 147827 MARCY765	765	147828	MASS 765	NA											
							Open 147828 MASS 765	765	180819	CHA-NY	NA											
							Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.25140	0.00039	624.3	624.9					
							Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.25140	0.00034	543.3	543.9					





									Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.74954	-0.19912	-261.1	-644.5	
		19544	1942.8	1577.1				L:130753 FRASR345	345	130755 OAKDL345	345	1			-762.3	-1380.0	-0.31796		-0.29399	-566.1	-1137.3
								C:130753			202										
								Open 130753 FRASR345	345	137200 EDIC	345	1						0.27552	-0.08697	-712.0	-880.9
		19549	1954.3	1585.4				L:135452 LOCKPORT	115	135872 SOUR-111	115	1			93.2	159.0	0.03368		0.02623	74.8	126.0
								C:130754			205										
								Open 130754 KINTI345	345	149000 ROCH	345	345	1					0.03527	0.21119	521.8	934.5
		19551	1955.6	1586.3	*			L:126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1345.1	-1725.0	-0.19426		-0.18057	-1281.5	-1634.7
								C:130750			195										
								Open 130750 COOPC345	345	146754 MDTN TAP	345	345	1					-0.07280	0.18810	872.9	1240.7
		19556	1963.9	1592.3				L:135452 LOCKPORT	115	135876 TELRDTP1	115	1			103.6	180.0	0.03890		0.02608	85.9	137.1
								C:147834			226										
								Open 147834 NIAG 345	345	149000 ROCH	345	345	1					0.04231	0.30306	418.2	1013.3
		NA	2024.8	1636.6	R			L:125015 AC CBLTP	115	125041 N.CHELSE	115	1			319.0	240.0	-0.03900		-0.01986	162.2	122.0
								C:125021			29										
								Open 125021 DC CBLTP	115	125041 N.CHELSE	115	1						0.92978	-0.02058	168.6	126.9
		19588	2025.3	1637				L:135850 SOUR-114	115	135861 MORTIMER	115	1			70.5	153.0	0.04071		0.02730	52.0	107.3
								C:147834			226										
								Open 147834 NIAG 345	345	149000 ROCH	345	345	1					0.04425	0.30306	418.2	1031.9
		NA	2030.4	1640.7	R			L:125015 AC CBLTP	115	125041 N.CHELSE	115	1			319.2	240.0	-0.03900		-0.01986	162.2	121.9
								C:125020			25										
								Open 125020 DANSKAMA	115	125021 DC CBLTP	115	1						0.92978	-0.02058	168.8	127.0
		19643	2050.3	1655.2				L:135872 SOUR-111	115	135873 SWDN-111	115	1			89.9	159.0	0.03368		0.02623	71.5	125.3
								C:130754			205										
								Open 130754 KINTI345	345	149000 ROCH	345	345	1					0.03527	0.21119	521.8	954.8
		20997	2065	1665.8				L: Interface	14	Leeds-PV					2663.5	3450.0	0.38085		0.35241	2523.0	3250.7
								C:SER:CMT			594										
								Open 130750 COOPC345	345	146754 MDTN TAP	345	345	1					0.18265	0.18810	872.9	1261.3
								Open 125001 ROCK TAV	345	146754 MDTN TAP	345	345	1					0.04437	-0.13311	-426.4	-701.3
		21139	2069.2	1668.9				L:137451 LEEDS 3	345	137453 N.SCOT99	345	2			-1214.4	-1724.0	-0.24626		-0.17308	-860.4	-1218.6
								C:BUS:N.S			615										
								Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1						0.60778	-0.04427	-242.4	-334.0
								Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1						0.40442	0.00052	113.3	114.4
								Open 137200 EDIC	345	137452 N.SCOT77	345	1						-0.33527	0.17126	820.4	1174.8
								Open 137450 ALPS345	345	137452 N.SCOT77	345	1						-0.26700	-0.04099	-84.4	-169.3
								Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1						0.20564	0.00000	0.0	0.0
		21223	2076.9	1674.5				L:135452 LOCKPORT	115	135851 SHEL-113	115	1			97.8	180.0	0.03957		0.02654	79.8	134.9
								C:147834			226										
								Open 147834 NIAG 345	345	149000 ROCH	345	345	1					0.04302	0.30306	418.2	1047.6
		21233	2078.3	1675.5				L: Interface	14	Leeds-PV					2664.4	3450.0	0.37800		0.35241	2523.0	3255.5
								C:130750			196										
								Open 130750 COOPC345	345	147833 MARCY T1	345	1						-0.19102	-0.13397	-740.0	-1018.5
		21247	2082.8	1678.8				L:130764 MEYER230	230	131122 WTHRS230	230	1			-242.2	-430.0	-0.09019				
								Base Case													
		21259	2086.1	1681.2				L:130750 COOPC345	345	130753 FRASR345	345	1			-1076.8	-1703.0	-0.30016		-0.22465	-993.8	-1462.4
								C:130753			203										
								Open 130753 FRASR345	345	147831 GILB	345	345	1					-0.39407	0.19162	210.7	610.4
		21277	2101.3	1692.2				L:130815 HINMN115	115	135452 LOCKPORT	115	1			191.4	280.0	0.04216		0.02697	170.5	227.1
								C:147834			226										
								Open 147834 NIAG 345	345	149000 ROCH	345	345	1					0.05011	0.30306	418.2	1055.0
		21283	2108.1	1697.1				L:130836 N.WAV115	115	131018 LOUNSI115	115	1			48.5	173.0	0.05908		0.03792	20.7	100.6
								C:130755			206										
								Open 130755 OAKDL345	345	130757 WATRC345	345	345	1					-0.10626	-0.19912	-261.1	-680.9
		21293	2113.6	1701.2				L:146754 MDTN TAP	345	146772 SHOEMTAP	138	1			445.8	562.0	0.05499				
								Base Case													
		21294	2117.9	1704.2				L: Interface	14	Leeds-PV					2647.1	3450.0	0.37913		0.35241	2523.0	3269.4
								C:130750			195										
								Open 130750 COOPC345	345	146754 MDTN TAP	345	345	1					0.14209	0.18810	872.9	1271.2

	21297	2124.2	1708.8		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1	-62.1	-129.0	-0.03150					
					Base Case								
	NA	2125.7	1709.9	R	L: Interface 53 PJME-NYE	1087.0	787.0	-0.14111		0.00000	452.2	452.2	
					C:GEN:IND 774								
					Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			0.00000	-0.11640	522.5	275.0		
					Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			-0.60931	0.23158	-1041.8	-549.5		
	NA	2125.7	1709.9	R	L: Interface 54 NYE-PJME	-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2	
					C:GEN:IND 774								
					Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			0.00000	-0.11640	522.5	275.0		
					Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			0.60931	0.23158	-1041.8	-549.5		
	NA	2126.8	1710.7	R	L: Interface 53 PJME-NYE	1085.6	787.0	-0.14041		0.00000	452.2	452.2	
					C:GEN:IND 773								
					Open 126288 IP2 345 345 126651 IND PT 2 22.0 1			0.00000	0.11288	-509.2	-269.2		
					Open 126288 IP2 345 345 126651 IND PT 2 22.0 2			-0.62193	0.22576	-1018.5	-538.3		
	NA	2126.8	1710.7	R	L: Interface 54 NYE-PJME	-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2	
					C:GEN:IND 773								
					Open 126288 IP2 345 345 126651 IND PT 2 22.0 1			0.00000	0.11288	-509.2	-269.2		
					Open 126288 IP2 345 345 126651 IND PT 2 22.0 2			0.62193	0.22576	-1018.5	-538.3		
	21300	2138	1718.8		L:130815 HINMN115 115 131611 HARI115 115 1	-218.3	-306.0	-0.04100		-0.02625	-198.0	-254.1	
					C:147834 226								
					Open 147834 NIAG 345 345 149000 ROCH 345 345 1			-0.04868	0.30306	418.2	1066.1		
	21310	2166.9	1739.8		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1	553.8	746.0	0.08871		0.05499	445.8	564.9	
					C:125001 9								
					Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1			-0.25331	-0.13311	-426.4	-714.8		
	21312	2174	1745.1		L: Interface 14 Leeds-PV	2627.6	3450.0	0.37830		0.35241	2523.0	3289.2	
					C:SER:PV 598								
					Open 103105 LONG MTN 345 103117 CTNY398 345 1			0.33670	0.07691	310.6	477.8		
					Open 103117 CTNY398 345 126294 PLTVLLEY 345 1			-0.23705	0.00000	0.2	0.2		
	21313	2174.1	1745.1	*	L: Interface 14 Leeds-PV	2627.5	3450.0	0.37830		0.35241	2523.0	3289.2	
					C:103117 362								
					Open 103117 CTNY398 345 126294 PLTVLLEY 345 1			0.33670	0.07691	310.4	477.6		
	21320	2195.9	1761		L:130770 SHLDN230 230 131122 WTHRS230 230 1	231.9	430.0	0.09019					
					Base Case								
	21322	2202.9	1766		L:130764 MEYER230 230 131122 WTHRS230 230 1	-306.1	-540.0	-0.10618		-0.09019	-242.2	-440.8	
					C:SER:HCW 608								
					Open 130757 WATRC345 345 200769 HOMER CY 345 1			0.11956	-0.12271	-547.8	-818.1		
					Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.03820	-0.03464	40.8	-35.5		
	21323	2203.1	1766.2		L:135862 MUMFORD1 115 135866 NLEROYTA 115 1	-84.0	-173.0	-0.04038		-0.03150	-62.1	-131.5	
					C:130754 205								
					Open 130754 KINTI345 345 149000 ROCH 345 345 1			-0.04206	0.21119	521.8	987.0		
	21332	2226.7	1783.3		L:130764 MEYER230 230 131122 WTHRS230 230 1	-306.9	-540.0	-0.10469		-0.09019	-242.2	-443.0	
					C:130757 374								
					Open 130757 WATRC345 345 200769 HOMER CY 345 1			0.11817	-0.12271	-547.8	-821.1		
	21334	2234.6	1789.1		L:130750 COOPC345 345 130753 FRASR345 345 1	-1143.6	-1703.0	-0.25035		-0.22465	-993.8	-1495.8	
					C:137451 7								
					Open 137451 LEEDS 3 345 147831 GILB 345 345 1			0.16356	-0.15716	-915.6	-1266.8		
	21335	2234.7	1789.1		L:126294 PLTVLLEY 345 137455 ATHENS 345 1	-1310.0	-1725.0	-0.18571		-0.17184	-1241.5	-1625.5	
					C:SER:CMT 594								
					Open 130750 COOPC345 345 146754 MDTN TAP 345 1			-0.08906	0.18810	872.9	1293.2		
					Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1			-0.02164	-0.13311	-426.4	-723.9		
	21337	2248.6	1799.2		L:130764 MEYER230 230 131122 WTHRS230 230 1	-304.7	-540.0	-0.10465		-0.09019	-242.2	-445.0	
					C:SER:HC 602								
					Open 130757 WATRC345 345 200769 HOMER CY 345 1			0.11759	-0.12271	-547.8	-823.7		
					Open 135277 FALCONER 115 200579 WARREN 115 1			-0.05270	0.00060	-35.9	-34.5		
	21338	2249.3	1799.7		L:126294 PLTVLLEY 345 137455 ATHENS 345 1	-1310.4	-1725.0	-0.18431		-0.17184	-1241.5	-1628.0	
					C:130750 196								
					Open 130750 COOPC345 345 147833 MARCY T1 345 1			0.09314	-0.13397	-740.0	-1041.4		
	21339	2253.8	1803		L:130794 DELHI115 115 130851 SIDNT115 115 1	-33.5	-120.0	-0.03838		-0.02118	-0.4	-48.1	





					C:SIN:250	678					0.00002	0.00000	-0.1	-0.1
					Open 100508 SANDB115	115 100509 SB RCTOR	115 2							
					Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch							
21471	2425.7	1927.9		L:130767	STOLE230	230 130770 SHLDN230	230 1	286.1	540.0	0.10469		0.09019	221.3	440.1
					C:130757	374								
					Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.11817	-0.12271	-547.8	-845.5
21476	2429.4	1930.6		L:135859	LAPPINS1	115 135866 NLEROYTA	115 1	97.8	173.0	0.03097		0.03097	77.9	153.2
					C:GEN:GIN	563								
					Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW dispatch							
21492	2434	1933.9		L:137453	N.SCOT99	345 147833 MARCY T1	345 1	-1201.0	-1792.0	-0.24280		-0.18357	-917.3	-1364.1
					C:137200	946								
					Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.34584	0.17126	820.4	1237.3
21510	2439.1	1937.6		L:130753	FRASR345	345 130755 OAKDL345	345 1	-631.2	-1380.0	-0.30701		-0.29399	-566.1	-1283.2
					C:137453	12								
					Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				0.07093	-0.18357	-917.3	-1365.0
21538	2444.7	1941.7		L:135861	MORTIMER	115 135874 SWDN-113	115 1	-50.4	-153.0	-0.04198		-0.02815	-31.3	-100.1
					C:147834	226								
					Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.04563	0.30306	418.2	1159.0
21571	2447.7	1943.9		L:130767	STOLE230	230 130770 SHLDN230	230 1	283.8	540.0	0.10465		0.09019	221.3	442.1
					C:SER:HC-	602								
					Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.11759	-0.12271	-547.8	-848.2
					Open 135277 FALCONER	115 200579 WARREN	115 1				0.05270	0.00060	-35.9	-34.4
21702	2453.2	1947.9		L:130753	FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.30603		-0.29399	-566.1	-1287.3
					C:SIN:150	670								
					Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.07028	0.17126	820.4	1240.6
					Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				-0.04607	0.00000	119.9	119.9
					Open 137235 PORTER 1	115 147905 ILION	115 1				0.00061	-0.00011	88.8	88.6
21703	2453.3	1947.9		L:130753	FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.30603		-0.29399	-566.1	-1287.3
					C:SIN:160	671								
					Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.07028	0.17126	820.4	1240.6
					Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				-0.04614	0.00000	119.9	119.9
					Open 137235 PORTER 1	115 137246 VALLEY	115 1				0.00092	-0.00018	74.9	74.5
22588	2456.1	1950		L:135859	LAPPINS1	115 135866 NLEROYTA	115 1	87.8	173.0	0.03467		0.03097	77.9	154.0
					C:130764	221								
					Open 130764 MEYER230	230 131122 WTHRS230	230 1				-0.04101	-0.09019	-242.2	-463.7
22759	2457.4	1950.9		L:130815	HINMN115	115 135452 LOCKPORT	115 1	192.1	280.0	0.03575		0.02697	170.5	236.7
					C:130754	205								
					Open 130754 KINTI345	345 149000 ROCH 345	345 1				0.04157	0.21119	521.8	1040.7
22863	2458.6	1951.8		L:130753	FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.29399		-0.29399	-566.1	-1288.9
					C:GEN:SEA	574								
					Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch							
22864	2458.6	1951.8	*	L:130753	FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.29399		-0.29399	-566.1	-1288.9
					C:GEN:SEA	576								
					Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00002	0.00000	-0.1	-0.1
					Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch							
22973	2463.8	1955.6		L:137200	EDIC	345 137452 N.SCOT77	345 1	1150.6	1724.0	0.23275		0.17126	820.4	1242.4
					C:SIN:170	672								
					Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				-0.33492	-0.18357	-917.3	-1369.6
					Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				0.19089	0.00000	119.9	119.9
					Open 137235 PORTER 1	115 137246 VALLEY	115 1				0.00024	-0.00018	74.9	74.5
22974	2463.8	1955.6		L:137200	EDIC	345 137452 N.SCOT77	345 1	1150.6	1724.0	0.23275		0.17126	820.4	1242.4
					C:SIN:180	673								
					Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				-0.33492	-0.18357	-917.3	-1369.6
					Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				0.19091	0.00000	119.9	119.9
					Open 137235 PORTER 1	115 147905 ILION	115 1				0.00016	-0.00011	88.8	88.5
23007	2468.2	1958.8		L:135859	LAPPINS1	115 135866 NLEROYTA	115 1	87.4	173.0	0.03467		0.03097	77.9	154.4
					C:130770	228								
					Open 130770 SHLDN230	230 131122 WTHRS230	230 1				0.04101	0.09019	231.9	454.6







							Open 130754 KINTI345	345	147834	NIAG	345	345	1				-0.03527	-0.20027	48.6	-468.3
	23229	2581.3	2041			L:130848	S.OWE115	115	131850	CNYOG115	115	1	22.8	-143.0	-0.06423		-0.03792	-15.2	-113.1	
							C:130763						219							
							Open 130763 HILSD230	230	130768	WATRC230	230	1				-0.19958	0.13182	-190.6	149.7	
	23231	2583.8	2042.8			L:130767	STOLE230	230	130770	SHLDN230	230	1	251.1	540.0	0.11180		0.09019	221.3	454.4	
							C:147834						226							
							Open 147834 NIAG	345	345	149000	ROCH	345	345	1			0.07130	0.30306	418.2	1201.2
	23240	2592.1	2048.8			L:135452	LOCKPORT	115	135876	TELRDTP1	115	1	100.1	180.0	0.03081		0.02608	85.9	153.5	
							C:135452						596							
							Open 135452 LOCKPORT	115	135851	SHEL-113	115	1				0.17825	0.02654	79.8	148.6	
	23244	2594.9	2050.9			L:130815	HINMN115	115	135452	LOCKPORT	115	1	190.1	280.0	0.03463		0.02697	170.5	240.4	
							C:130770						228							
							Open 130770 SHLDN230	230	131122	WTHRS230	230	1				0.08488	0.09019	231.9	466.0	
	23257	2600.2	2054.7			L:130764	MEYER230	230	131122	WTHRS230	230	1	-273.0	-540.0	-0.10268		-0.09019	-242.2	-476.7	
							C:130754						205							
							Open 130754 KINTI345	345	149000	ROCH	345	345	1				-0.05915	0.21119	521.8	1070.9
	23258	2601.3	2055.5			L:130764	MEYER230	230	131122	WTHRS230	230	1	-307.8	-540.0	-0.08928		-0.09019	-242.2	-476.8	
							C:BUS:WAT						633							
							Open 130757 WATRC345	345	200769	HOMER	CY	345	1				0.06554	-0.12271	-547.8	-867.0
							Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.11714	-0.07641	264.1	65.3	
							Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.05466	0.00000	22.7	22.7	
	23263	2604.8	2058			L:137200	EDIC	345	137452	N.SCOT77	345	1	1121.1	1724.0	0.23144		0.17126	820.4	1266.5	
							C:137453						12							
							Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1				-0.32782	-0.18357	-917.3	-1395.5
	23294	2612.2	2063.4			L:130750	COOPC345	345	130753	FRASR345	345	1	-1080.1	-1703.0	-0.23847		-0.22465	-993.8	-1580.6	
							C:BUS:N.S						616							
							Open 137453 N.SCOT99	345	147831	GILB	345	345	1				0.12469	-0.03446	-307.4	-397.4
							Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1				0.04434	-0.18357	-917.3	-1396.8
							Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.00285	0.00067	120.3	122.0	
							Open 137451 LEEDS	3	345	137453	N.SCOT99	345	2				0.00801	-0.17308	-860.4	-1312.6
							Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.01543	0.00000	1.6	1.6	
	23299	2613.8	2064.6			L:130815	HINMN115	115	131611	HARIS115	115	1	-217.9	-306.0	-0.03369		-0.02625	-198.0	-266.6	
							C:130764						221							
							Open 130764 MEYER230	230	131122	WTHRS230	230	1				0.08245	-0.09019	-242.2	-477.9	
	23349	2621	2069.8			L:130815	HINMN115	115	135452	LOCKPORT	115	1	189.2	280.0	0.03463		0.02697	170.5	241.2	
							C:130767						226							
							Open 130767 STOLE230	230	130770	SHLDN230	230	1				0.08488	0.09019	221.3	457.7	
	24753	2638.8	2082.7			L:130815	HINMN115	115	131611	HARIS115	115	1	-217.1	-306.0	-0.03369		-0.02625	-198.0	-267.3	
							C:130770						228							
							Open 130770 SHLDN230	230	131122	WTHRS230	230	1				-0.08245	0.09019	231.9	469.9	
	24852	2658.4	2097			L:137200	EDIC	345	137452	N.SCOT77	345	1	1117.8	1724.0	0.22802		0.17126	820.4	1275.7	
							C:BUS:N.S						616							
							Open 137453 N.SCOT99	345	147831	GILB	345	345	1				-0.18531	-0.03446	-307.4	-399.0
							Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1				-0.38310	-0.18357	-917.3	-1405.3
							Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.09741	0.00067	120.3	122.1	
							Open 137451 LEEDS	3	345	137453	N.SCOT99	345	2				0.11491	-0.17308	-860.4	-1320.6
							Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.24149	0.00000	1.6	1.6	
	24872	2664.8	2101.6			L:130815	HINMN115	115	131611	HARIS115	115	1	-216.2	-306.0	-0.03369		-0.02625	-198.0	-267.9	
							C:130767						226							
							Open 130767 STOLE230	230	130770	SHLDN230	230	1				-0.08245	0.09019	221.3	461.7	
	24876	2669.3	2104.9			L:130764	MEYER230	230	131122	WTHRS230	230	1	-256.6	-540.0	-0.10618		-0.09019	-242.2	-482.9	
							C:LKWANA-						652							
							Open 417 OXBOW	230	3070	LACKAWNA	230	1				0.11660	-0.13713	-123.7	-489.7	
	24896	2677.3	2110.7			L:137451	LEEDS	3	345	137452	N.SCOT77	345	1	-865.1	-1331.0	-0.17403				
							Base Case													
	24899	2678.3	2111.5			L:135872	SOUR-111	115	135873	SWDN-111	115	1	69.8	159.0	0.03329		0.02623	71.5	141.8	
							C:130754						204							
							Open 130754 KINTI345	345	147834	NIAG	345	345	1				-0.03527	-0.20027	48.6	-487.8

	24902	2681.6	2113.8		L:135851	SHEL-113	115	135874	SWDN-113	115	1	88.6	180.0	0.03408		0.02654	70.0	141.2	
						C:130754					205								
						Open	130754	KINTI345	345	149000	ROCH	345	345	1		0.03569	0.21119	521.8	1088.1
	24923	2695.4	2123.9		L:130750	COOPC345	345	130753	FRASR345	345	1	-1060.5	-1703.0	-0.23836		-0.22465	-993.8	-1599.3	
						C:125000					1								
						Open	125000	HURLEY 3	345	125002	ROSETON	345	1		-0.10122	0.13549	659.1	1024.3	
	24925	2699.5	2126.9		L:130770	SHLDN230	230	131122	WTHRS230	230	1	262.8	540.0	0.10268		0.09019	231.9	475.4	
						C:130754					205								
						Open	130754	KINTI345	345	149000	ROCH	345	345	1		0.05915	0.21119	521.8	1091.9
	24940	2705.6	2131.3		L:135850	SOUR-114	115	135876	TELRDTP1	115	1	-85.1	-180.0	-0.03506		-0.02731	-66.0	-139.9	
						C:130754					205								
						Open	130754	KINTI345	345	149000	ROCH	345	345	1		-0.03671	0.21119	521.8	1093.2
	24950	2709.8	2134.4		L:137451	LEEDS 3	345	147831	GILB 345	345	1	-1313.8	-1912.0	-0.22076		-0.15716	-915.6	-1341.5	
						C:BUS:N.S					616								
						Open	137453	N.SCOT99	345	147831	GILB	345	345	1		0.62610	-0.03446	-307.4	-400.7
						Open	137453	N.SCOT99	345	147833	MARCY T1	345	1		0.16119	-0.18357	-917.3	-1414.7	
						Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1		0.03268	0.00067	120.3	122.1	
						Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2		0.07200	-0.17308	-860.4	-1329.5	
						Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		0.10447	0.00000	1.6	1.6	
	24953	2711.9	2135.9		L:135858	GOLAH115	115	135862	MUMFORD1	115	1	-63.5	-173.0	-0.04038		-0.03150	-41.6	-127.0	
						C:130754					205								
						Open	130754	KINTI345	345	149000	ROCH	345	345	1		-0.04206	0.21119	521.8	1094.5
	24964	2715.6	2138.6		L:130770	SHLDN230	230	131122	WTHRS230	230	1	297.5	540.0	0.08928		0.09019	231.9	476.9	
						C:BUS:WAT					633								
						Open	130757	WATRC345	345	200769	HOMER CY	345	1		-0.06554	-0.12271	-547.8	-881.1	
						Open	130757	WATRC345	345	130768	WATRC230	230	1		0.11714	-0.07641	264.1	56.6	
						Open	130755	OAKDL345	345	130757	WATRC345	345	1		-0.05466	0.00000	22.7	22.7	
	24969	2718.7	2140.8		L:137451	LEEDS 3	345	137453	N.SCOT99	345	2	-860.4	-1331.0	-0.17308					
						Base Case													
	25021	2738.1	2154.9		L: Interface	19	PJM-NY					2403.4	3114.0	0.25954		0.25954	1506.8	2217.4	
						C:GEN:SEA					576								
						Open	100508	SANDB115	115	100509	SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1	
						Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
	25022	2738.1	2154.9		L: Interface	19	PJM-NY					2403.4	3114.0	0.25954		0.25954	1506.8	2217.4	
						C:GEN:SEA					574								
						Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
	25023	2738.1	2154.9		L: Interface	35	NY-PJM					-2403.4	-3114.0	-0.25954		-0.25954	-1506.8	-2217.4	
						C:GEN:SEA					576								
						Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	
						Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
	25024	2738.1	2154.9		L: Interface	35	NY-PJM					-2403.4	-3114.0	-0.25954		-0.25954	-1506.8	-2217.4	
						C:GEN:SEA					574								
						Remove unit 1	from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch						
	25073	2754.6	2166.9		L: Interface	35	NY-PJM					-2399.1	-3114.0	-0.25954		-0.25954	-1506.8	-2221.7	
						C:SIN:250					678								
						Open	100508	SANDB115	115	100509	SB RCTOR	115	2		0.00004	0.00000	-0.1	-0.1	
						Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
	25074	2754.6	2166.9		L: Interface	19	PJM-NY					2399.1	3114.0	0.25954		0.25954	1506.8	2221.7	
						C:SIN:250					678								
						Open	100508	SANDB115	115	100509	SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1	
						Remove unit 3	from bus	103563	MILL#3	24.0	1276.0	MW	dispatch						
	25087	2756.4	2168.2		L:125001	ROCK TAV	345	126297	RAMAPO	345	1	1686.6	2283.0	0.21636		0.22267	1116.0	1729.7	
						C:SIN:430					683								
						Open	125002	ROSETON	345	126281	FISHKILL	345	1		0.37909	-0.01665	1505.3	1459.4	
	25088	2756.4	2168.2		L:125001	ROCK TAV	345	126297	RAMAPO	345	1	1686.6	2283.0	0.21636		0.22267	1116.0	1729.7	
						C:125002					10								
						Open	125002	ROSETON	345	126281	FISHKILL	345	1		0.37909	-0.01665	1505.3	1459.4	
	25095	2757.8	2169.2		L:130753	FRASR345	345	137200	EDIC	345	1	-888.0	-1380.0	-0.17840		-0.08697	-712.0	-951.8	





	28391	2888.2	2264		L:130753	FRASR345	345	147831	GILB	345	345	1	670.4	1524.0	0.29554		0.19162	210.7	764.1
						C:130750						192							
						Open	130750	COOPC345	345	130753	FRASR345	345	1			-0.46259	-0.22465	-993.8	-1642.6
	28393	2890.3	2265.5		L:130764	MEYER230	230	131343	MEYER	M4	34.5	1	172.9	336.0	0.05641		0.03047	114.4	202.5
						C:130751						197							
						Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			0.43445	0.05972	134.7	307.3
	28394	2890.4	2265.6		L:130764	MEYER230	230	131343	MEYER	M4	34.5	1	172.9	336.0	0.05641		0.03047	114.4	202.5
						C:SER:MEY						605							
						Open	130761	AVOCA230	230	131154	STONY	RIDGE	230	1		0.43445	0.05972	134.6	307.2
						Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			0.38798	0.00000	0.1	0.1
	28395	2891.3	2266.2		L:130764	MEYER230	230	131343	MEYER	M4	34.5	1	172.9	336.0	0.05641		0.03047	114.4	202.5
						C:130761						216							
						Open	130761	AVOCA230	230	131154	STONY	RIDGE	230	1		0.43445	0.05972	134.6	307.3
	28397	2892.2	2266.8		L:135861	MORTIMER	115	136213	LAWLER-2	115	1	63.0	159.0	0.03320		0.02322	36.6	103.8	
						C:135860						689							
						Open	135860	LAWLER-1	115	135861	MORTIMER	115	1			-0.44425	-0.02246	-59.4	-124.3
	28400	2893.4	2267.8		L:135452	LOCKPORT	115	135876	TELRDTP1	115	1	84.2	180.0	0.03311		0.02608	85.9	161.4	
						C:130754						204							
						Open	130754	KINTI345	345	147834	NIAG	345	345	1		-0.03510	-0.20027	48.6	-530.8
	28406	2896.2	2269.7		L:130764	MEYER230	230	131343	MEYER	M4	34.5	1	172.6	336.0	0.05641		0.03047	114.4	202.7
						C:130763						220							
						Open	130763	HILSD230	230	131154	STONY	RIDGE	230	1		-0.43445	-0.05972	-133.9	-306.9
	28431	2913.1	2282		L:147834	NIAG	345	345	149000	ROCH	345	345	1	418.2	1301.0	0.30306			
						Base Case													
	28440	2923.7	2289.7		L:130764	MEYER230	230	131122	WTHRS230	230	1	-278.2	-540.0	-0.08956		-0.09019	-242.2	-505.8	
						C:131128						392							
						Open	131128	LAPEER	345	136153	LAFAYTTE	345	1			0.05332	0.01183	-675.2	-640.7
	28452	2942.1	2303.1		L: Interface	59	MarcySouthS						1893.6	3048.0	0.39237		0.35862	1733.8	2788.9
						C:BUS:N.S						615							
						Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1			-0.06563	-0.04427	-242.4	-372.6
						Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1			-0.04917	0.00052	113.3	114.8
						Open	137200	EDIC	345	137452	N.SCOT77	345	1			0.18354	0.17126	820.4	1324.3
						Open	137450	ALPS345	345	137452	N.SCOT77	345	1			0.01360	-0.04099	-84.4	-205.0
						Open	137451	LEEDS	3	345	137452	N.SCOT77	345	1		-0.01140	0.00000	0.0	0.0
	28456	2946.4	2306.2		L:130787	CODNT115	115	130830	MONTR115	115	1	2.4	-144.0	-0.04967		-0.03332	23.8	-74.4	
						C:130755						206							
						Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.08213	-0.19912	-261.1	-847.8
	28461	2947.3	2306.9		L:130764	MEYER230	230	131122	WTHRS230	230	1	-239.3	-540.0	-0.10204		-0.09019	-242.2	-508.0	
						C:130754						204							
						Open	130754	KINTI345	345	147834	NIAG	345	345	1		0.05915	-0.20027	48.6	-541.6
	28471	2958.2	2314.8	*	L:130764	MEYER230	230	131122	WTHRS230	230	1	-217.4	-540.0	-0.10907		-0.09019	-242.2	-508.9	
						C:ETHS/NW						649							
						Open	130763	HILSD230	230	200675	E.TWANDA	230	1			0.14633	-0.08301	116.1	-129.5
						Open	130836	N.WAV115	115	200676	E.SAYRE	115	1			0.12194	-0.03464	40.8	-61.6
						Open	130807	GOUDY115	115	200680	LAUREL	L	115	1		0.07591	-0.03304	37.4	-60.4
	28474	2961.7	2317.4		L:137453	N.SCOT99	345	147833	MARCY	T1	345	1	-1122.6	-1792.0	-0.22601		-0.18357	-917.3	-1461.0
						C:BUS:N.S						615							
						Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1			-0.09197	-0.04427	-242.4	-373.5
						Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1			0.02619	0.00052	113.3	114.9
						Open	137200	EDIC	345	137452	N.SCOT77	345	1			-0.28818	0.17126	820.4	1327.7
						Open	137450	ALPS345	345	137452	N.SCOT77	345	1			-0.06914	-0.04099	-84.4	-205.8
						Open	137451	LEEDS	3	345	137452	N.SCOT77	345	1		0.13842	0.00000	0.0	0.0
	28475	2963.3	2318.5		L:130836	N.WAV115	115	131018	LOUNSI115	115	1	-17.3	173.0	0.06423		0.03792	20.7	133.1	
						C:130763						219							
						Open	130763	HILSD230	230	130768	WATRC230	230	1			0.19958	0.13182	-190.6	200.0
	28476	2964.8	2319.6		L:135850	SOUR-114	115	135861	MORTIMER	115	1	50.3	153.0	0.03465		0.02730	52.0	133.0	
						C:130754						204							
						Open	130754	KINTI345	345	147834	NIAG	345	345	1		-0.03670	-0.20027	48.6	-545.1

			28479	2972.5	2325.2		L: Interface	19 PJM-NY		2342.2	3114.0	0.25965		0.25954	1506.8	2278.3		
								C:HQ-NY-7		777								
								Open 147827	MARCY765	765	147828	MASS 74	NA					
								Open 147828	MASS 765	765	180819	CHA-NY	NA					
								Open 147827	MARCY765	765	147833	MARCY T1	345 1	0.14604	0.00039	624.3	625.4	
								Open 147827	MARCY765	765	147833	MARCY T1	345 2	0.14604	0.00034	543.3	544.3	
								Open	156	MCY765SW	0.0	147827	MARCY74	NA				
								Open 147838	MASS230B	230	147839	MOSES E	230 1	0.00000	-0.00036	10.7	9.6	
								Open 147828	MASS 765	765	147838	MASS230	NA					
								Open 147837	MASS230A	230	147839	MOSES E	230 1	-0.61018	0.00000	18.8	18.8	
								Open 147828	MASS 765	765	147837	MASS230	NA					
								Open	158	MS765SW2	0.0	147828	MASS 74	NA				
								Open	157	MS765SW1	0.0	147828	MASS 74	NA				
								Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch				
								Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch			
								Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch				
								Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch			
			28480	2972.5	2325.2		L: Interface	35 NY-PJM		-2342.2	-3114.0	-0.25965		-0.25954	-1506.8	-2278.3		
								C:HQ-NY-7		777								
								Open 147827	MARCY765	765	147828	MASS 74	NA					
								Open 147828	MASS 765	765	180819	CHA-NY	NA					
								Open 147827	MARCY765	765	147833	MARCY T1	345 1	-0.14604	0.00039	624.3	625.4	
								Open 147827	MARCY765	765	147833	MARCY T1	345 2	-0.14604	0.00034	543.3	544.3	
								Open	156	MCY765SW	0.0	147827	MARCY74	NA				
								Open 147838	MASS230B	230	147839	MOSES E	230 1	0.00000	-0.00036	10.7	9.6	
								Open 147828	MASS 765	765	147838	MASS230	NA					
								Open 147837	MASS230A	230	147839	MOSES E	230 1	0.61018	0.00000	18.8	18.8	
								Open 147828	MASS 765	765	147837	MASS230	NA					
								Open	158	MS765SW2	0.0	147828	MASS 74	NA				
								Open	157	MS765SW1	0.0	147828	MASS 74	NA				
								Decrease bus	180001	BEA-DLX	13.8	generation by	100.0	percent dispatch				
								Set	bus	181319	CHAT G3	120	load to	357.0	MW dispatch			
								Decrease bus	180002	BEA-DL	13.8	generation by	100.0	percent dispatch				
								Set	bus	181419	CHAT G4	120	load to	357.0	MW dispatch			
			28481	2974.1	2326.4		L:137451	LEEDS 3	345	137455	ATHENS	345 1	983.5	1725.0	0.24930	0.17184	433.7	944.8
								C:126294		120								
								Open 126294	PLTVLLEY	345	137451	LEEDS 3	345 2	-0.42902	-0.18057	-1281.5	-1818.6	
			28482	2974.1	2326.4		L:130764	MEYER230	230	131343	MEYER M4	34.5 1	168.2	336.0	0.05641	0.03047	114.4	205.0
								C:130751		198								
								Open 130751	CNDGUA_T	230	130764	MEYER230	230 1	-0.43445	-0.05972	-123.8	-301.4	
			28490	2980.6	2331.1		L:146769	RAMP138	138	146773	SGRLF138	138 2	-151.4	-351.0	-0.06698	-0.03511	8.3	-96.3
								C:125001		7								
								Open 125001	ROCK TAV	345	126297	RAMAPO	345 1	-0.14310	0.22267	1116.0	1779.7	
			28491	2980.6	2331.1		L:146769	RAMP138	138	146773	SGRLF138	138 2	-151.4	-351.0	-0.06698	-0.03511	8.3	-96.3
								C:SIN:440		684								
								Open 125001	ROCK TAV	345	126297	RAMAPO	345 1	-0.14310	0.22267	1116.0	1779.7	
			28493	2981.2	2331.5		L:137200	EDIC	345	137452	N.SCOT77	345 1	820.4	1331.0	0.17126			
								Base Case										
			28495	2983.6	2333.3		L:135862	MUMFORD1	115	135866	NLEROYTA	115 1	-69.7	-173.0	-0.03463	-0.03150	-62.1	-156.1
								C:135850		673								
								Open 135850	SOUR-114	115	135876	TELRDTP1	115 1	0.11483	-0.02731	-66.0	-147.5	
			28496	2983.7	2333.4		L:135862	MUMFORD1	115	135866	NLEROYTA	115 1	-79.0	-173.0	-0.03150	-0.03150	-62.1	-156.1
								C:GEN:9 M		562								
								Remove unit 2	from bus	136700	9M PT 2G	25.0	1198.7	MW dispatch				
			28508	2990.6	2338.4	*	L:135862	MUMFORD1	115	135866	NLEROYTA	115 1	-70.3	-173.0	-0.03436	-0.03150	-62.1	-156.3
								C:135452		599								
								Open 135452	LOCKPORT	115	135872	SOUR-111	115 1	-0.10907	0.02623	74.8	153.2	
			28518	2997.3	2343.2		L: Interface	59 MarcySouthS					1891.8	3048.0	0.38574	0.35862	1733.8	2808.7

							C:137451		7							
							Open 137451 LEEDS 3		345 147831 GILB 345		345 1		-0.17257	-0.15716	-915.6	-1386.6

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:08 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33751  
 First violation - -164974.2 MW.

Interface-1 Interface 3 VOLNEY EAST Init.Flow= 3600.66 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_C_EXP	GHI_IMPORT	3000.0	1	-164974	-161373		L: Interface	21 PJM-WEST		5144.2	0.0	0.03118		0.04964	5119.7	-3069.6
							C:SER:C39	606								
							Open	409 GROVER	230 200675 E.TWANDA	230 1			0.06508	0.00124	-15.5	-220.4
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.17331	-0.07863	116.1	13088.0
							Open	381 TOWANDA	115 200675 E.TWANDA	230 1			0.01303	-0.00639	-52.6	1001.4
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.14729	-0.03278	40.8	5449.2
			2	-164756	-161155		L: Interface	21 PJM-WEST		5145.8	0.0	0.03123		0.04964	5119.7	-3058.8
							C:SER:ETH	607								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.17129	-0.07863	116.1	13070.9
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.15067	-0.03278	40.8	5442.1
			3	-146981	-143380		L: Interface	21 PJM-WEST		5140.3	0.0	0.03497		0.04964	5119.7	-2176.5
							C:ETHS/LL	650								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.13790	-0.07863	116.1	11673.2
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1			0.12173	-0.03142	37.4	4655.7
			4	-128918	-125317		L: Interface	21 PJM-WEST		5134.2	0.0	0.03983		0.04964	5119.7	-1279.8
							C:130763	375								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.12483	-0.07863	116.1	10252.9
			5	-121292	-117691		L: Interface	21 PJM-WEST		5130.8	0.0	0.04230		0.04964	5119.7	-901.3
							C:130763	219								
							Open	130763 HILSD230	230 130768 WATRC230	230 1			-0.05805	0.12642	-190.6	-15524.7
			6	-119072	-115471		L: Interface	21 PJM-WEST		5137.5	0.0	0.04315		0.04964	5119.7	-791.1
							C:BUS:WAT	634								
							Open	130768 WATRC230	230 130772 SHRED230	230 1			-0.02068	0.05293	73.0	-6229.2
							Open	130757 WATRC345	345 130768 WATRC230	230 1			0.07347	-0.07350	264.1	9015.3
							Open	130763 HILSD230	230 130768 WATRC230	230 1			-0.18954	0.00000	0.5	0.5
			7	-116085	-112484		L: Interface	21 PJM-WEST		5050.1	0.0	0.04350		0.04964	5119.7	-642.8
							C:MULT041	657								
							Open	9 JUNIATA	500 21 SUNBURY	500 1			-0.13385	0.04497	526.9	-4693.8
							Open	21 SUNBURY	500 3084 SUNBURY	230 24			-0.00697	0.01688	-120.9	-2080.9
			8	-114961	-111360		L: Interface	21 PJM-WEST		5137.5	0.0	0.04469		0.04964	5119.7	-587.0
							C:130757	213								
							Open	130757 WATRC345	345 130768 WATRC230	230 1			0.06737	-0.07350	264.1	8713.2
			9	-110424	-106824		L: Interface	21 PJM-WEST		5189.8	0.0	0.04700		0.04964	5119.7	-361.8
							C:SER:HC-	601								
							Open	135398 SW345	345 200769 HOMER CY	345 1			-0.17843	0.01454	-377.8	-1983.1
							Open	135277 FALCONER	115 200579 WARREN	115 1			-0.07359	0.00065	-35.9	-107.9



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10	-109782	-106181	*	L: Interface	21	PJM-WEST	5182.9	0.0	0.04721		0.04964	5119.7	-329.9
							C:135398		380							
							Open	135398	SW345 345 200769 HOMER CY	345	1		-0.16713	0.01454	-377.8	-1973.8
			1756	-72701.3	-69100.6		L: Interface	20	PJM-CENT	3534.1	0.0	0.04861		0.10599	3274.5	-4431.0
							C:126260		79							
							Open	126260	BOWLINE1 345 146750 WHAV345	345	10		-0.55144	0.10405	-470.6	-8035.5
			1762	-56438.3	-52837.7		L: Interface	20	PJM-CENT	3475.2	0.0	0.06157		0.10599	3274.5	-2707.3
							C:SIN:301		666							
							Open	126260	BOWLINE1 345 146841 BOWL NA							
							Open	126260	BOWLINE1 345 146750 WHAV345	345	10		-0.42591	0.10405	-470.6	-6343.2
							Open	126290	LADENTWN 345 146750 WHAV345	345	1		-0.00103	0.09521	-170.9	-5544.4
			1763	-51264.4	-47663.8		L: Interface	20	PJM-CENT	3233.7	0.0	0.06308		0.10599	3274.5	-2159.0
							C:LKWANA-		652							
							Open	417	OXBOW 230 3070 LACKAWNA	230	1		0.33015	-0.12997	-123.7	6539.2
			1764	-49246.6	-45646		L: Interface	20	PJM-CENT	3327.1	0.0	0.06756		0.10599	3274.5	-1945.1
							C:ETHS/NW		649							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.28217	-0.07863	116.1	3988.3
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.25854	-0.03278	40.8	1655.3
							Open	130807	GOUDY115 115 200680 LAUREL L	115	1		0.24719	-0.03142	37.4	1584.8
			1765	-41354.7	-37754		L: Interface	20	PJM-CENT	3308.8	0.0	0.08001		0.10599	3274.5	-1108.6
							C:SER:C39		606							
							Open	409	GROVER 230 200675 E.TWANDA	230	1		0.09832	0.00124	-15.5	-66.9
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.24421	-0.07863	116.1	3367.8
							Open	381	TOWANDA 115 200675 E.TWANDA	230	1		0.01929	-0.00639	-52.6	211.6
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.20672	-0.03278	40.8	1396.6
			1766	-41345.9	-37745.3		L: Interface	20	PJM-CENT	3311.2	0.0	0.08008		0.10599	3274.5	-1107.7
							C:SER:ETH		607							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.24118	-0.07863	116.1	3367.1
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.21172	-0.03278	40.8	1396.3
			1767	-38686.5	-35085.8		L: Interface	20	PJM-CENT	3303.4	0.0	0.08539		0.10599	3274.5	-825.8
							C:ETHS/LL		650							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.19413	-0.07863	116.1	3158.0
							Open	130807	GOUDY115 115 200680 LAUREL L	115	1		0.16981	-0.03142	37.4	1253.0
			1768	-37467.4	-33866.8		L: Interface	20	PJM-CENT	3971.1	0.0	0.10599		0.10599	3274.5	-696.6
							C:GEN:PEA		569							
							Remove unit 1 from bus	34	PCHBTM 2	22.0	1059.5	MW	dispatch			
			1769	-36984.8	-33384.1		L: Interface	20	PJM-CENT	3920.0	0.0	0.10599		0.10599	3274.5	-645.5
							C:GEN:SAL		568							
							Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch			
			1770	-35790.7	-32190.1	*	L: Interface	20	PJM-CENT	3793.4	0.0	0.10599		0.10599	3274.5	-518.9
							C:SIN:250		678							
							Open	100508	SANDB115 115 100509 SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch			
			3525	-6998.8	-3398.1		L: Interface	47	C-PJMWest	-482.4	0.0	-0.06893		-0.11652	-547.8	267.7
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		-0.25046	-0.19002	-261.1	1068.8
			3526	-6998.8	-3398.1		L: Interface	48	PJMWest-C	482.4	0.0	0.06893		0.11652	547.8	-267.7
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		0.25046	-0.19002	-261.1	1068.8
			3527	-6998.8	-3398.1		L: Interface	61	PJMWest-C	482.4	0.0	0.06893		0.11652	547.8	-267.7
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		0.25046	-0.19002	-261.1	1068.8
			3528	-6998.8	-3398.1		L: Interface	60	C2PJMWest	-482.4	0.0	-0.06893		-0.11652	-547.8	267.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755	206							
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			-0.25046	-0.19002	-261.1	1068.8
			3529	-5809.9	-2209.2		L: Interface	60 C2PJMJC		-599.3	0.0	-0.10315		-0.11652	-547.8	129.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3530	-5809.9	-2209.2		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10315		-0.11652	-547.8	129.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3531	-5809.9	-2209.2		L: Interface	61 PJMC2C		599.3	0.0	0.10315		0.11652	547.8	-129.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3532	-5809.9	-2209.2		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10315		-0.11652	-547.8	129.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3533	-5809.9	-2209.2		L: Interface	60 C2PJMJC		-599.3	0.0	-0.10315		-0.11652	-547.8	129.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3534	-5809.9	-2209.2		L: Interface	48 PJMWest-C		599.3	0.0	0.10315		0.11652	547.8	-129.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13986	785.6	1598.2
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1305.6
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch							
			3535	-5809.9	-2209.2		L: Interface 48 PJMWest-C			599.3	0.0	0.10315		0.11652	547.8	-129.2
							C:SIN:130	669								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1					0.00650	-0.13986	785.6	1598.2
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2					0.00650	-0.13986	785.6	1598.2
							Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1					-0.04989	0.23158	39.8	-1305.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3536	-5809.9	-2209.2		L: Interface 61 PJMC2C			599.3	0.0	0.10315		0.11652	547.8	-129.2
							C:SIN:120	668								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1					0.00650	-0.13986	785.6	1598.2
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2					0.00650	-0.13986	785.6	1598.2
							Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1					-0.04989	0.23158	39.8	-1305.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3537	-5663.2	-2062.5		L: Interface 48 PJMWest-C			488.6	0.0	0.08627		0.11652	547.8	-112.1
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.10467	-0.28902	-566.1	1070.6
			3538	-5663.2	-2062.5		L: Interface 47 C-PJMWest			-488.6	0.0	-0.08627		-0.11652	-547.8	112.1
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.10467	-0.28902	-566.1	1070.6
			3539	-5663.2	-2062.5		L: Interface 60 C2PJMC			-488.6	0.0	-0.08627		-0.11652	-547.8	112.1
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.10467	-0.28902	-566.1	1070.6
			3540	-5663.2	-2062.5		L: Interface 61 PJMC2C			488.6	0.0	0.08627		0.11652	547.8	-112.1
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.10467	-0.28902	-566.1	1070.6
			3541	-5489.1	-1888.5		L: Interface 61 PJMC2C			589.2	0.0	0.10733		0.11652	547.8	-91.8
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1161.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					-0.03968	0.23158	-1041.8	-2313.0
			3542	-5489.1	-1888.5		L: Interface 48 PJMWest-C			589.2	0.0	0.10733		0.11652	547.8	-91.8
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1161.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					-0.03968	0.23158	-1041.8	-2313.0
			3543	-5489.1	-1888.5		L: Interface 47 C-PJMWest			-589.2	0.0	-0.10733		-0.11652	-547.8	91.8
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1161.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					-0.03968	0.23158	-1041.8	-2313.0
			3544	-5489.1	-1888.5		L: Interface 60 C2PJMC			-589.2	0.0	-0.10733		-0.11652	-547.8	91.8
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1161.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					0.03968	0.23158	-1041.8	-2313.0
			3545	-5459.1	-1858.4		L: Interface 61 PJMC2C			621.0	0.0	0.11375		0.11652	547.8	-88.3
							C:SER:HC	601								
							Open 135398 SW345 345 200769 HOMER CY	345 1					-0.18770	0.01454	-377.8	-457.2
							Open 135277 FALCONER 115 200579 WARREN	115 1					-0.06273	0.00065	-35.9	-39.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3546	-5459.1	-1858.4		L: Interface 60	C2PJM		-621.0	0.0	-0.11375		-0.11652	-547.8	88.3
							C:SER:HC-	601								
							Open 135398	SW345 345 200769 HOMER CY	345 1				0.18770	0.01454	-377.8	-457.2
							Open 135277	FALCONER 115 200579 WARREN	115 1				0.06273	0.00065	-35.9	-39.4
			3547	-5459.1	-1858.4		L: Interface 47	C-PJMWest		-621.0	0.0	-0.11375		-0.11652	-547.8	88.3
							C:SER:HC-	601								
							Open 135398	SW345 345 200769 HOMER CY	345 1				0.18770	0.01454	-377.8	-457.2
							Open 135277	FALCONER 115 200579 WARREN	115 1				0.06273	0.00065	-35.9	-39.4
			3548	-5459.1	-1858.4		L: Interface 48	PJMWest-C		621.0	0.0	0.11375		0.11652	547.8	-88.3
							C:SER:HC-	601								
							Open 135398	SW345 345 200769 HOMER CY	345 1				-0.18770	0.01454	-377.8	-457.2
							Open 135277	FALCONER 115 200579 WARREN	115 1				-0.06273	0.00065	-35.9	-39.4
			3549	-5440.4	-1839.8		L: Interface 48	PJMWest-C		634.0	0.0	0.11654		0.11652	547.8	-86.1
							C:HQ-NY-7	777								
							Open 147827	MARCY765 765 147828 MASS 74	NA							
							Open 147828	MASS 765 765 180819 CHA-NY	NA							
							Open 147827	MARCY765 765 147833 MARCY T1	345 1				0.02482	0.00041	624.3	622.0
							Open 147827	MARCY765 765 147833 MARCY T1	345 2				0.02482	0.00036	543.3	541.4
							Open 156	MCY765SW 0.0 147827 MARCY74	NA							
							Open 147838	MASS230B 230 147839 MOSES E	230 1				0.00000	-0.00038	10.7	12.8
							Open 147828	MASS 765 765 147838 MASS230	NA							
							Open 147837	MASS230A 230 147839 MOSES E	230 1				-0.05509	0.00000	18.8	18.8
							Open 147828	MASS 765 765 147837 MASS230	NA							
							Open 158	MS765SW2 0.0 147828 MASS 74	NA							
							Open 157	MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus 180001	BEA-DLX 13.8 generation by100.0 percent dispatch								
							Set bus 181319	CHAT G3 120 load to357.0 MW dispatch								
							Decrease bus 180002	BEA-DL 13.8 generation by100.0 percent dispatch								
							Set bus 181419	CHAT G4 120 load to357.0 MW dispatch								
			3550	-5440.4	-1839.8		L: Interface 47	C-PJMWest		-634.0	0.0	-0.11654		-0.11652	-547.8	86.1
							C:HQ-NY-7	777								
							Open 147827	MARCY765 765 147828 MASS 74	NA							
							Open 147828	MASS 765 765 180819 CHA-NY	NA							
							Open 147827	MARCY765 765 147833 MARCY T1	345 1				-0.02482	0.00041	624.3	622.0
							Open 147827	MARCY765 765 147833 MARCY T1	345 2				-0.02482	0.00036	543.3	541.4
							Open 156	MCY765SW 0.0 147827 MARCY74	NA							
							Open 147838	MASS230B 230 147839 MOSES E	230 1				0.00000	-0.00038	10.7	12.8
							Open 147828	MASS 765 765 147838 MASS230	NA							
							Open 147837	MASS230A 230 147839 MOSES E	230 1				0.05509	0.00000	18.8	18.8
							Open 147828	MASS 765 765 147837 MASS230	NA							
							Open 158	MS765SW2 0.0 147828 MASS 74	NA							
							Open 157	MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus 180001	BEA-DLX 13.8 generation by100.0 percent dispatch								
							Set bus 181319	CHAT G3 120 load to357.0 MW dispatch								
							Decrease bus 180002	BEA-DL 13.8 generation by100.0 percent dispatch								
							Set bus 181419	CHAT G4 120 load to357.0 MW dispatch								
			3551	-5440.4	-1839.8		L: Interface 61	PJM2C		634.0	0.0	0.11654		0.11652	547.8	-86.1
							C:HQ-NY-7	777								
							Open 147827	MARCY765 765 147828 MASS 74	NA							
							Open 147828	MASS 765 765 180819 CHA-NY	NA							
							Open 147827	MARCY765 765 147833 MARCY T1	345 1				0.02482	0.00041	624.3	622.0
							Open 147827	MARCY765 765 147833 MARCY T1	345 2				0.02482	0.00036	543.3	541.4
							Open 156	MCY765SW 0.0 147827 MARCY74	NA							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147838	MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00038	10.7	12.8
								Open 147828	MASS 765 765 147838 MASS230A	NA						
								Open 147837	MASS230A 230 147839 MOSES E	230 1			-0.05509	0.00000	18.8	18.8
								Open 147828	MASS 765 765 147837 MASS230A	NA						
								Open 158	MS765SW2 0.0 147828 MASS 74	NA						
								Open 157	MS765SW1 0.0 147828 MASS 74	NA						
								Decrease bus 180001	BEA-DLX 13.8 generation by100.0 percent dispatch							
								Set bus 181319	CHAT G3 120 load to357.0 MW dispatch							
								Decrease bus 180002	BEA-DL 13.8 generation by100.0 percent dispatch							
								Set bus 181419	CHAT G4 120 load to357.0 MW dispatch							
			3552	-5440.4	-1839.8		L: Interface 60	C2PJMC		-634.0	0.0	-0.11654		-0.11652	-547.8	86.1
							C:HQ-NY-7		777							
								Open 147827	MARCY765 765 147828 MASS 74	NA						
								Open 147828	MASS 765 765 180819 CHA-NY	NA						
								Open 147827	MARCY765 765 147833 MARCY T1	345 1			-0.02482	0.00041	624.3	622.0
								Open 147827	MARCY765 765 147833 MARCY T1	345 2			-0.02482	0.00036	543.3	541.4
								Open 156	MCY765SW 0.0 147827 MARCY74	NA						
								Open 147838	MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00038	10.7	12.8
								Open 147828	MASS 765 765 147838 MASS230A	NA						
								Open 147837	MASS230A 230 147839 MOSES E	230 1			0.05509	0.00000	18.8	18.8
								Open 147828	MASS 765 765 147837 MASS230A	NA						
								Open 158	MS765SW2 0.0 147828 MASS 74	NA						
								Open 157	MS765SW1 0.0 147828 MASS 74	NA						
								Decrease bus 180001	BEA-DLX 13.8 generation by100.0 percent dispatch							
								Set bus 181319	CHAT G3 120 load to357.0 MW dispatch							
								Decrease bus 180002	BEA-DL 13.8 generation by100.0 percent dispatch							
								Set bus 181419	CHAT G4 120 load to357.0 MW dispatch							
			3553	-5439.3	-1838.6		L: Interface 61	PJMC2C		586.8	0.0	0.10788		0.11652	547.8	-86.0
							C:GEN:IND		773							
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1123.2
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 2			-0.03827	0.22576	-1018.5	-2246.4
			3554	-5439.3	-1838.6		L: Interface 48	PJMWest-C		586.8	0.0	0.10788		0.11652	547.8	-86.0
							C:GEN:IND		773							
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1123.2
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 2			-0.03827	0.22576	-1018.5	-2246.4
			3555	-5439.3	-1838.6		L: Interface 47	C-PJMWest		-586.8	0.0	-0.10788		-0.11652	-547.8	86.0
							C:GEN:IND		773							
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1123.2
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 2			0.03827	0.22576	-1018.5	-2246.4
			3556	-5439.3	-1838.6		L: Interface 60	C2PJMC		-586.8	0.0	-0.10788		-0.11652	-547.8	86.0
							C:GEN:IND		773							
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1123.2
								Open 126288	IP2 345 345 126651 IND PT 2	22.0 2			0.03827	0.22576	-1018.5	-2246.4
			3557	-5398.8	-1798.1		L: Interface 61	PJMC2C		615.1	0.0	0.11393		0.11652	547.8	-81.3
							C:135398		380							
								Open 135398	SW345 345 200769 HOMER CY	345 1			-0.17807	0.01454	-377.8	-456.3
			3558	-5398.8	-1798.1		L: Interface 60	C2PJMC		-615.1	0.0	-0.11393		-0.11652	-547.8	81.3
							C:135398		380							
								Open 135398	SW345 345 200769 HOMER CY	345 1			0.17807	0.01454	-377.8	-456.3
			3559	-5398.8	-1798.1		L: Interface 48	PJMWest-C		615.1	0.0	0.11393		0.11652	547.8	-81.3
							C:135398		380							
								Open 135398	SW345 345 200769 HOMER CY	345 1			-0.17807	0.01454	-377.8	-456.3
			3560	-5398.8	-1798.1		L: Interface 47	C-PJMWest		-615.1	0.0	-0.11393		-0.11652	-547.8	81.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:135398	380							
								Open 135398 SW345	345 200769 HOMER CY	345 1			0.17807	0.01454	-377.8	-456.3
			3561	-5392.7	-1792.1	*	L: Interface	60 C2PJMC		-628.4	0.0	-0.11652		-0.11652	-547.8	80.5
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3562	-5392.7	-1792.1	*	L: Interface	47 C-PJMWest		-628.4	0.0	-0.11652		-0.11652	-547.8	80.5
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3563	-5392.7	-1792.1	*	L: Interface	48 PJMWest-C		628.4	0.0	0.11652		0.11652	547.8	-80.5
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3564	-5392.7	-1792.1	*	L: Interface	61 PJMC2C		628.4	0.0	0.11652		0.11652	547.8	-80.5
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3601	-5133.5	-1532.8		L: Interface	56 NYE-PJMENoRE		-1498.1	-1287.0	-0.04113		0.00000	-1299.4	-1299.4
								C:SER:HC-	602							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.35376	-0.11652	-547.8	50.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			0.13836	0.00065	-35.9	-39.2
			3602	-5133.5	-1532.8		L: Interface	55 PJME-NYEnoRE		1498.1	1287.0	0.04113		0.00000	1299.4	1299.4
								C:SER:HC-	602							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.35376	-0.11652	-547.8	50.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			-0.13836	0.00065	-35.9	-39.2
			3631	-5019.8	-1419.2		L: Interface	52 PJMEast-G		239.7	0.0	0.04775		0.00000	0.3	0.3
								C:SIN:440	684							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.21456	0.22255	1116.0	-1.2
			3632	-5019.8	-1419.2		L: Interface	51 G-PJMEast		-239.7	0.0	-0.04775		0.00000	-0.3	-0.3
								C:SIN:440	684							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			-0.21456	0.22255	1116.0	-1.2
			3633	-5019.8	-1419.2		L: Interface	51 G-PJMEast		-239.7	0.0	-0.04775		0.00000	-0.3	-0.3
								C:125001	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			-0.21456	0.22255	1116.0	-1.2
			3634	-5019.8	-1419.2		L: Interface	52 PJMEast-G		239.7	0.0	0.04775		0.00000	0.3	0.3
								C:125001	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.21456	0.22255	1116.0	-1.2
			3639	-5003.2	-1402.5		L: Interface	55 PJME-NYEnoRE		1492.4	1287.0	0.04104		0.00000	1299.4	1299.4
								C:130757	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.35224	-0.11652	-547.8	35.2
			3640	-5003.2	-1402.5		L: Interface	56 NYE-PJMENoRE		-1492.4	-1287.0	-0.04104		0.00000	-1299.4	-1299.4
								C:130757	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.35224	-0.11652	-547.8	35.2
			3813	-4763.5	-1162.9		L: Interface	55 PJME-NYEnoRE		1475.1	1287.0	0.03949		0.00000	1299.4	1299.4
								C:130750	192							
								Open 130750 COOPC345	345 130753 FRASR345	345 1			-0.17684	-0.22333	-993.8	70.0
			3814	-4763.5	-1162.9		L: Interface	56 NYE-PJMENoRE		-1475.1	-1287.0	-0.03949		0.00000	-1299.4	-1299.4
								C:130750	192							
								Open 130750 COOPC345	345 130753 FRASR345	345 1			0.17684	-0.22333	-993.8	70.0
			10551	-4457.2	-856.6		L: Interface	51 G-PJMEast		-154.0	0.0	-0.03456		0.00000	-0.3	-0.3
								C:130750	192							
								Open 130750 COOPC345	345 130753 FRASR345	345 1			0.15474	-0.22333	-993.8	1.6
			10552	-4457.2	-856.6		L: Interface	52 PJMEast-G		154.0	0.0	0.03456		0.00000	0.3	0.3
								C:130750	192							
								Open 130750 COOPC345	345 130753 FRASR345	345 1			-0.15474	-0.22333	-993.8	1.6
			10565	-4098.6	-497.9		L: Interface	56 NYE-PJMENoRE		-1487.8	-1287.0	-0.04900		0.00000	-1299.4	-1299.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.36005	-0.11652	-547.8	-70.3
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.21507	-0.03278	40.8	175.2
			10566	-4098.6	-497.9		L: Interface	55 PJME-NYEnoRE		1487.8	1287.0	0.04900		0.00000	1299.4	1299.4
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.36005	-0.11652	-547.8	-70.3
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.21507	-0.03278	40.8	175.2
			10579	-3823.8	-223.1		L: Interface	51 G-PJMEast		-124.9	0.0	-0.03265		0.00000	-0.3	-0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23852	-0.11652	-547.8	-102.3
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.14830	-0.03278	40.8	166.2
			10580	-3823.8	-223.1		L: Interface	52 PJMEast-G		124.9	0.0	0.03265		0.00000	0.3	0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23852	-0.11652	-547.8	-102.3
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.14830	-0.03278	40.8	166.2
			10593	-3620.5	-19.9		L: Interface	63 PJMW2C		513.2	0.0	0.14175		0.25936	353.6	-585.4
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.80842	-0.07863	116.1	400.7
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.83288	-0.03278	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.85100	-0.03142	37.4	151.1
			10594	-3620.5	-19.9		L: Interface	62 C2PJMW		-513.2	0.0	-0.14175		-0.25936	-353.6	585.4
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			-0.80842	-0.07863	116.1	400.7
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.83288	-0.03278	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			-0.85100	-0.03142	37.4	151.1
			10599	-3337	263.6		L: Interface	26 ONTARIO-MICH		758.6	0.0	0.22734		0.24562	733.8	-85.8
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.12796	-0.07863	116.1	378.4
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.13032	-0.03278	40.8	150.2
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.12541	-0.03142	37.4	142.2
			10600	-3211.8	388.9		L: Interface	26 ONTARIO-MICH		750.6	0.0	0.23370		0.24562	733.8	-55.1
								C:SER:ETH	607							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10716	-0.07863	116.1	368.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10657	-0.03278	40.8	146.1
			10601	-3211.4	389.3		L: Interface	26 ONTARIO-MICH		750.4	0.0	0.23368		0.24562	733.8	-55.0
								C:SER:C39	606							
								Open 409 GROVER	230 200675 E.TWANDA	230 1			0.00016	0.00124	-15.5	-19.5
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10740	-0.07863	116.1	368.6
								Open 381 TOWANDA	115 200675 E.TWANDA	230 1			0.00252	-0.00639	-52.6	-32.1
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10591	-0.03278	40.8	146.1
			10602	-3159.6	441		L: Interface	26 ONTARIO-MICH		746.7	0.0	0.23633		0.24562	733.8	-42.3
								C:ETHS/LL	650							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.08358	-0.07863	116.1	364.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.08640	-0.03142	37.4	136.7
			10603	-3154.3	446.4		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.24105		0.24562	733.8	-41.0
								C:W44LC1	643							
								Open 160062 LONGWOOD	220 160074 COWALJ44	220 1			-0.16058	0.02331	189.0	115.5
								Open 160074 COWALJ44	220 160134 BUCHJW44	220 1			0.16305	-0.00502	334.6	350.4
								Open 160054 BUCHANAN	220 160134 BUCHJW44	220 1			-0.00035	0.00502	-256.3	-272.1
								Open 160055 CHATHAM	220 160074 COWALJ44	220 1			0.71978	0.00000	3.1	3.1
			10604	-3154.1	446.6		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.24106		0.24562	733.8	-40.9
								C:W45LC1	644							
								Open 160062 LONGWOOD	220 160075 COWALJ45	220 1			-0.16052	0.02328	189.0	115.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 160075	COWALJ45 220 160135 BUCHJW45	220 1			0.16299	-0.00501	334.4	350.3
								Open 160054	BUCHANAN 220 160135 BUCHJW45	220 1			-0.00035	0.00501	-262.6	-278.4
								Open 160055	CHATHAM 220 160075 COWALJ45	220 1			0.71974	0.00000	3.1	3.1
			10605	-3140.9	459.8		L: Interface 26	ONTARIO-MICH		770.6	0.0	0.24535		0.24562	733.8	-37.7
							C:131128		392							
							Open 131128	LAPEER 345 136153 LAFAYTTE	345 1				-0.05454	0.00493	-675.2	-690.7
			10606	-3124.9	475.8		L: Interface 26	ONTARIO-MICH		719.0	0.0	0.23010		0.24562	733.8	-33.7
							C:LKWANA-		652							
							Open 417	OXBOW 230 3070 LACKAWNA	230 1				0.11942	-0.12997	-123.7	282.5
			10607	-3124	476.7		L: Interface 26	ONTARIO-MICH		770.0	0.0	0.24648		0.24562	733.8	-33.5
							C:130755		209							
							Open 130755	OAKDL345 345 131128 LAPEER	345 1				-0.06047	-0.01432	-599.0	-554.2
			10608	-3103.6	497.1	*	L: Interface 26	ONTARIO-MICH		746.8	0.0	0.24063		0.24562	733.8	-28.5
							C:KEY-SHE		651							
							Open 505	SHELOCTA 230 521 KEYSTONE	230 1				0.08780	-0.04681	48.1	193.4
							Open 473	BLAIRSVL 138 235253 OLSOCIAL	138 1				0.08827	-0.00994	99.7	130.6
			12296	-2890.7	710		L: Interface 55	PJME-NYEnoRE		1478.3	1287.0	0.06620		0.00000	1299.4	1299.4
							C:BUS:WAT		633							
							Open 130757	WATRC345 345 200769 HOMER CY	345 1				-0.44203	-0.11652	-547.8	-211.0
							Open 130757	WATRC345 345 130768 WATRC230	230 1				-0.19985	-0.07350	264.1	476.5
							Open 130755	OAKDL345 345 130757 WATRC345	345 1				-0.46005	0.00000	22.7	22.7
			12297	-2890.7	710		L: Interface 56	NYE-PJMEEnoRE		-1478.3	-1287.0	-0.06620		0.00000	-1299.4	-1299.4
							C:BUS:WAT		633							
							Open 130757	WATRC345 345 200769 HOMER CY	345 1				0.44203	-0.11652	-547.8	-211.0
							Open 130757	WATRC345 345 130768 WATRC230	230 1				0.19985	-0.07350	264.1	476.5
							Open 130755	OAKDL345 345 130757 WATRC345	345 1				0.46005	0.00000	22.7	22.7
			12339	-2668.8	931.8		L: Interface 52	PJMEast-G		118.6	0.0	0.04443		0.00000	0.3	0.3
							C:BUS:WAT		633							
							Open 130757	WATRC345 345 200769 HOMER CY	345 1				-0.29477	-0.11652	-547.8	-236.8
							Open 130757	WATRC345 345 130768 WATRC230	230 1				-0.13719	-0.07350	264.1	460.2
							Open 130755	OAKDL345 345 130757 WATRC345	345 1				-0.30599	0.00000	22.7	22.7
			12340	-2668.8	931.8		L: Interface 51	G-PJMEast		-118.6	0.0	-0.04443		0.00000	-0.3	-0.3
							C:BUS:WAT		633							
							Open 130757	WATRC345 345 200769 HOMER CY	345 1				0.29477	-0.11652	-547.8	-236.8
							Open 130757	WATRC345 345 130768 WATRC230	230 1				0.13719	-0.07350	264.1	460.2
							Open 130755	OAKDL345 345 130757 WATRC345	345 1				0.30599	0.00000	22.7	22.7
			12350	-2479.9	1120.8		L: Interface 63	PJMW2C		458.4	0.0	0.18487		0.25936	353.6	-289.6
							C:SER:ETH		607							
							Open 130763	HILSD230 230 200675 E.TWANDA	230 1				0.66732	-0.07863	116.1	311.0
							Open 130836	N.WAV115 115 200676 E.SAYRE	115 1				0.67169	-0.03278	40.8	122.1
			12351	-2479.9	1120.8		L: Interface 62	C2PJMW		-458.4	0.0	-0.18487		-0.25936	-353.6	289.6
							C:SER:ETH		607							
							Open 130763	HILSD230 230 200675 E.TWANDA	230 1				-0.66732	-0.07863	116.1	311.0
							Open 130836	N.WAV115 115 200676 E.SAYRE	115 1				-0.67169	-0.03278	40.8	122.1
			12352	-2476.1	1124.6		L: Interface 63	PJMW2C		457.5	0.0	0.18478		0.25936	353.6	-288.6
							C:SER:C39		606							
							Open 409	GROVER 230 200675 E.TWANDA	230 1				0.00111	0.00124	-15.5	-18.6
							Open 130763	HILSD230 230 200675 E.TWANDA	230 1				0.66891	-0.07863	116.1	310.7
							Open 381	TOWANDA 115 200675 E.TWANDA	230 1				0.01713	-0.00639	-52.6	-36.8
							Open 130836	N.WAV115 115 200676 E.SAYRE	115 1				0.66726	-0.03278	40.8	122.0
			12353	-2476.1	1124.6		L: Interface 62	C2PJMW		-457.5	0.0	-0.18478		-0.25936	-353.6	288.6
							C:SER:C39		606							
							Open 409	GROVER 230 200675 E.TWANDA	230 1				-0.00111	0.00124	-15.5	-18.6



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			-0.66891	-0.07863	116.1	310.7
								Open	381 TOWANDA 115 200675 E.TWANDA	230 1			-0.01713	-0.00639	-52.6	-36.8
								Open	130836 N.WAV115 115 200676 E.SAYRE	115 1			-0.66726	-0.03278	40.8	122.0
			12364	-2193.7	1406.9		L: Interface	63 PJMW2C		437.0	0.0	0.19919		0.25936	353.6	-215.4
							C:ETHS/LL	650								
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			0.52482	-0.07863	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115 1			0.60169	-0.03142	37.4	106.3
			12365	-2193.7	1406.9		L: Interface	62 C2PJMW		-437.0	0.0	-0.19919		-0.25936	-353.6	215.4
							C:ETHS/LL	650								
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			-0.52482	-0.07863	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115 1			-0.60169	-0.03142	37.4	106.3
			12368	-2117.8	1482.8		L: Interface	55 PJME-NYEnoRE		1451.8	1287.0	0.07783		0.00000	1299.4	1299.4
							C:130753	200								
								Open	130753 FRASR345 345 130755 OAKDL345	345 1			-0.26930	-0.28902	-566.1	46.0
			12369	-2117.8	1482.8		L: Interface	56 NYE-PJMEEnoRE		-1451.8	-1287.0	-0.07783		0.00000	-1299.4	-1299.4
							C:130753	200								
								Open	130753 FRASR345 345 130755 OAKDL345	345 1			0.26930	-0.28902	-566.1	46.0
			12374	-2023.5	1577.2		L: Interface	62 C2PJMW		-524.8	0.0	-0.25936		-0.25936	-353.6	171.2
							C:GEN:9 M	562								
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW	dispatch				
			12375	-2023.5	1577.2		L: Interface	63 PJMW2C		524.8	0.0	0.25936		0.25936	353.6	-171.2
							C:GEN:9 M	562								
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW	dispatch				
			12376	-2021.1	1579.6		L: Interface	62 C2PJMW		-524.2	0.0	-0.25939		-0.25936	-353.6	170.6
							C:HQ-NY-7	777								
								Open	147827 MARCY765 765 147828 MASS 74	NA						
								Open	147828 MASS 765 765 180819 CHA-NY	NA						
								Open	147827 MARCY765 765 147833 MARCY T1	345 1			-0.04110	0.00041	624.3	623.4
								Open	147827 MARCY765 765 147833 MARCY T1	345 2			-0.04110	0.00036	543.3	542.6
								Open	156 MCY765SW 0.0 147827 MARCY74	NA						
								Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00038	10.7	11.5
								Open	147828 MASS 765 765 147838 MASS230	NA						
								Open	147837 MASS230A 230 147839 MOSES E	230 1			0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230	NA						
								Open	158 MS765SW2 0.0 147828 MASS 74	NA						
								Open	157 MS765SW1 0.0 147828 MASS 74	NA						
								Decrease bus 180001 BEA-DLX	13.8	generation	by100.0	percent	dispatch			
								Set bus 181319 CHAT G3	120	load	to357.0	MW	dispatch			
								Decrease bus 180002 BEA-DL	13.8	generation	by100.0	percent	dispatch			
								Set bus 181419 CHAT G4	120	load	to357.0	MW	dispatch			
			12377	-2021.1	1579.6		L: Interface	63 PJMW2C		524.2	0.0	0.25939		0.25936	353.6	-170.6
							C:HQ-NY-7	777								
								Open	147827 MARCY765 765 147828 MASS 74	NA						
								Open	147828 MASS 765 765 180819 CHA-NY	NA						
								Open	147827 MARCY765 765 147833 MARCY T1	345 1			0.04110	0.00041	624.3	623.4
								Open	147827 MARCY765 765 147833 MARCY T1	345 2			0.04110	0.00036	543.3	542.6
								Open	156 MCY765SW 0.0 147827 MARCY74	NA						
								Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00038	10.7	11.5
								Open	147828 MASS 765 765 147838 MASS230	NA						
								Open	147837 MASS230A 230 147839 MOSES E	230 1			-0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230	NA						
								Open	158 MS765SW2 0.0 147828 MASS 74	NA						
								Open	157 MS765SW1 0.0 147828 MASS 74	NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3 120 load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4 120 load to357.0 MW dispatch							
			12378	-1963.4	1637.2		L: Interface	51 G-PJMEast		-105.6	0.0	-0.05381		0.00000	-0.3	-0.3
								C:130753	200							
			12379	-1963.4	1637.2		L: Interface	52 PJMEast-G		105.6	0.0	0.05381	0.18617	-0.28902	-566.1	1.4
								C:130753	200					0.00000	0.3	0.3
			12380	-1825.1	1775.5		L: Interface	63 PJMW2C		471.8	0.0	0.25850	-0.18617	-0.28902	-566.1	1.4
								C:131128	392					0.25936	353.6	-119.8
			12381	-1825.1	1775.5		L: Interface	62 C2PJMW		-471.8	0.0	-0.25850	-0.17507	0.00493	-675.2	-684.2
								C:131128	392					-0.25936	-353.6	119.8
			12382	-1823.6	1777.1		L: Interface	62 C2PJMW		-407.0	0.0	-0.22317	0.17507	0.00493	-675.2	-684.2
								C:130763	375					-0.25936	-353.6	119.4
			12383	-1823.6	1777.1		L: Interface	63 PJMW2C		407.0	0.0	0.22317	-0.46019	-0.07863	116.1	259.4
								C:130763	375					0.25936	353.6	-119.4
			12386	-1802.4	1798.3		L: Interface	62 C2PJMW		-467.5	0.0	-0.25936	0.46019	-0.07863	116.1	259.4
								C:GEN:SEA	574					-0.25936	-353.6	113.9
			12387	-1802.4	1798.3		L: Interface	63 PJMW2C		467.5	0.0	0.25936		0.25936	353.6	-113.9
								C:GEN:SEA	574							
			12388	-1802.4	1798.3	*	L: Interface	63 PJMW2C		467.5	0.0	0.25936		0.25936	353.6	-113.9
								C:GEN:SEA	576							
			12389	-1802.4	1798.3	*	L: Interface	62 C2PJMW		-467.5	0.0	-0.25936	0.00001	0.00000	-0.1	-0.1
								C:GEN:SEA	576							
			12390	-1800.6	1800.1		L: Interface	56 NYE-PJMENoRE		-1353.2	-1287.0	-0.03678	-0.00001	0.00000	-0.1	-0.1
								C:147834	226							
			12391	-1800.6	1800.1		L: Interface	55 PJME-NYEnoRE		1353.2	1287.0	0.03678	-0.12877	0.28567	418.2	-96.2
								C:147834	226							
			12420	-1624.3	1976.3		L: Interface	55 PJME-NYEnoRE		1367.4	1287.0	0.04950	0.12877	0.28567	418.2	-96.2
								C:130755	206							
			12421	-1624.3	1976.3		L: Interface	56 NYE-PJMENoRE		-1367.4	-1287.0	-0.04950	-0.26051	-0.19002	-261.1	47.5
								C:130755	206							
			12497	-1444.8	2155.8		L: Interface	40 ONT-ZoneD		46.4	0.0	0.03214	0.26051	-0.19002	-261.1	47.5
								C:147834	226							
			12498	-1444.8	2155.8		L: Interface	39 ZoneD-ONT		-46.4	0.0	-0.03214	0.11251	0.28567	418.2	5.4
								C:147834	226						0.6	0.6



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23835	-0.11652	-547.8	-589.6
									Open 135277 FALCONER 115 200579 WARREN 115 1				0.06948	0.00065	-35.9	-35.6
			15922	361	3961.7		L: Interface 49 C-PJMCentral			57.1	0.0	-0.15817		-0.14283	194.3	142.7
							C:SER:HCW	608								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22548	-0.11652	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33373	-0.03278	40.8	29.0
			NA	361	3961.7	R	L: Interface 49 C-PJMCentral			57.1	0.0	-0.15817		-0.14283	194.3	142.7
							C:SER:HCW	608								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22548	-0.11652	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33373	-0.03278	40.8	29.0
			NA	361	3961.7	R	L: Interface 50 PJMCentral-C			-57.1	0.0	0.15817		0.14283	-194.3	-142.7
							C:SER:HCW	608								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22548	-0.11652	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33373	-0.03278	40.8	29.0
			15925	361	3961.7		L: Interface 50 PJMCentral-C			-57.1	0.0	0.15817		0.14283	-194.3	-142.7
							C:SER:HCW	608								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22548	-0.11652	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33373	-0.03278	40.8	29.0
			NA	375.9	3976.6	R	L: Interface 50 PJMCentral-C			-64.1	0.0	0.17052		0.14283	-194.3	-140.6
							C:130757	374								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23759	-0.11652	-547.8	-591.6
			15928	375.9	3976.6		L: Interface 49 C-PJMCentral			64.1	0.0	-0.17052		-0.14283	194.3	140.6
							C:130757	374								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23759	-0.11652	-547.8	-591.6
			15929	375.9	3976.6		L: Interface 50 PJMCentral-C			-64.1	0.0	0.17052		0.14283	-194.3	-140.6
							C:130757	374								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23759	-0.11652	-547.8	-591.6
			NA	375.9	3976.6	R	L: Interface 49 C-PJMCentral			64.1	0.0	-0.17052		-0.14283	194.3	140.6
							C:130757	374								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23759	-0.11652	-547.8	-591.6
			15930	394.2	3994.8		L: Interface 14 Leads-PV			2523.0	2662.0	0.35256				
							Base Case									
			15933	441.2	4041.8		L: Interface 50 PJMCentral-C			-63.8	0.0	0.14453		0.14283	-194.3	-131.2
							C:BUS:WAT	633								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.14481	-0.11652	-547.8	-599.2
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.20651	-0.07350	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.14879	0.00000	22.7	22.7
			NA	441.2	4041.8	R	L: Interface 50 PJMCentral-C			-63.8	0.0	0.14453		0.14283	-194.3	-131.2
							C:BUS:WAT	633								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.14481	-0.11652	-547.8	-599.2
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.20651	-0.07350	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.14879	0.00000	22.7	22.7
			NA	441.2	4041.8	R	L: Interface 49 C-PJMCentral			63.8	0.0	-0.14453		-0.14283	194.3	131.2
							C:BUS:WAT	633								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.14481	-0.11652	-547.8	-599.2
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.20651	-0.07350	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.14879	0.00000	22.7	22.7
			15934	441.2	4041.8		L: Interface 49 C-PJMCentral			63.8	0.0	-0.14453		-0.14283	194.3	131.2
							C:BUS:WAT	633								
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.14481	-0.11652	-547.8	-599.2
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.20651	-0.07350	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.14879	0.00000	22.7	22.7
			15935	520.7	4121.4		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1241.5	-1331.0	-0.17191				

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Base Case								
			15936	569.1	4169.8		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06247		0.03425	139.9	159.4
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22255	1116.0	1242.6
			15937	569.1	4169.8		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06247		0.03425	139.9	159.4
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22255	1116.0	1242.6
			15938	636	4236.7		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1578.2	-1725.0	-0.23079		-0.18065	-1281.5	-1396.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.32994	-0.15196	-899.1	-995.8
			NA	725.1	4325.8	R	L: Interface	50 PJMCentral-C		-103.6	0.0	0.14283		0.14283	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15939	725.1	4325.8	*	L: Interface	50 PJMCentral-C		-103.6	0.0	0.14283		0.14283	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15940	725.1	4325.8		L: Interface	49 C-PJMCentral		103.6	0.0	-0.14283		-0.14283	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			NA	725.1	4325.8	R	L: Interface	49 C-PJMCentral		103.6	0.0	-0.14283		-0.14283	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15943	772.6	4373.2		L: Interface	14 Leeds-PV		3102.0	3450.0	0.45042		0.35256	2523.0	2795.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				-0.64393	-0.15196	-899.1	-1016.5
			15948	893.8	4494.5		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17747		-0.18065	-1281.5	-1443.0
							C:125002		10							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01681	1505.3	1490.3
			15949	893.8	4494.5		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17747		-0.18065	-1281.5	-1443.0
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01681	1505.3	1490.3
			15950	899.5	4500.1		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09077		-0.05496	-445.8	-495.2
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22255	1116.0	1316.2
			15951	899.5	4500.1		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09077		-0.05496	-445.8	-495.2
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22255	1116.0	1316.2
			15952	916.1	4516.7		L:126294 PLTVLLEY	345 137455 ATHENS	345 1	-1523.8	-1725.0	-0.21963		-0.17191	-1241.5	-1399.0
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.31399	-0.15196	-899.1	-1038.3
			15955	930.4	4531.1		L:146758 CHESTER	138 146771 SHOEM138	138 1	-260.5	-317.0	-0.06077		-0.03425	-175.4	-207.2
							C:125001		9							
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.19956	-0.13290	-426.4	-550.1
			15960	954.6	4555.3		L:130750 COOPC345	345 130753 FRASR345	345 1	-993.8	-1207.0	-0.22333				
							Base Case									
			15965	982.8	4583.5		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1472.9	-1725.0	-0.25650		-0.18065	-1281.5	-1459.1
							C:137451		6							
							Open 137451 LEEDS 3	345 137455 ATHENS	345 1				-0.44120	0.17191	433.7	602.7
			15978	1071.4	4672.1		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34635		0.35256	2523.0	2900.8
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.36927	-0.01681	1505.3	1487.3
			15979	1071.4	4672.1		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34635		0.35256	2523.0	2900.8
							C:125002		10							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			15982	1081	4681.7	*	L: Interface	55 PJME-NYEnoRE	345 126281 FISHKILL	345 1	1242.4	1287.0	0.04124	0.36927	-0.01681	1505.3	1487.3
							C:ETHS/LL	650							0.00000	1299.4	1299.4
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				-0.35147	-0.07863	116.1	31.0
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				-0.43285	-0.03142	37.4	3.4
			15983	1081	4681.7	*	L: Interface	56 NYE-PJMENoRE	345 126281 FISHKILL	345 1	-1242.4	-1287.0	-0.04124		0.00000	-1299.4	-1299.4
							C:ETHS/LL	650									
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				0.35147	-0.07863	116.1	31.0
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				0.43285	-0.03142	37.4	3.4
			16002	1134.6	4735.3		L:126294	PLTVLLEY	345 137451 LEEDS 3	345 2	-1474.9	-1725.0	-0.22043		-0.18065	-1281.5	-1486.5
							C:125000	1									
							Open	125000 HURLEY 3	345 125002 ROSETON	345 1				-0.29336	0.13559	659.1	813.0
			16033	1258	4858.7		L:126294	PLTVLLEY	345 137455 ATHENS	345 1	-1512.5	-1725.0	-0.16889		-0.17191	-1241.5	-1457.8
							C:125002	10									
							Open	125002 ROSETON	345 126281 FISHKILL	345 1				-0.18006	-0.01681	1505.3	1484.2
			16034	1258	4858.7		L:126294	PLTVLLEY	345 137455 ATHENS	345 1	-1512.5	-1725.0	-0.16889		-0.17191	-1241.5	-1457.8
							C:SIN:430	683									
							Open	125002 ROSETON	345 126281 FISHKILL	345 1				-0.18006	-0.01681	1505.3	1484.2
			16053	1277.6	4878.2		L: Interface	14 Leeds-PV			2900.4	3450.0	0.43019		0.35256	2523.0	2973.5
							C:125000	1									
							Open	125000 HURLEY 3	345 125002 ROSETON	345 1				0.57252	0.13559	659.1	832.4
			16160	1329.1	4929.8		L:146754	MDIN TAP	345 146772 SHOEMTAP	138 1	625.4	746.0	0.09077		0.05496	445.8	518.8
							C:125001	7									
							Open	125001 ROCK TAV	345 126297 RAMAPO	345 1				0.16092	0.22255	1116.0	1411.8
			16161	1329.1	4929.8		L:146754	MDIN TAP	345 146772 SHOEMTAP	138 1	625.4	746.0	0.09077		0.05496	445.8	518.8
							C:SIN:440	684									
							Open	125001 ROCK TAV	345 126297 RAMAPO	345 1				0.16092	0.22255	1116.0	1411.8
			16318	1350.8	4951.5		L: Interface	52 PJMEast-G			-74.9	0.0	0.05542		0.00000	0.3	0.3
							C:ETHS/NW	649									
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				-0.37659	-0.07863	116.1	9.8
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.38829	-0.03278	40.8	-3.4
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				-0.41611	-0.03142	37.4	-5.1
			NA	1350.8	4951.5	R	L: Interface	52 PJMEast-G			-74.9	0.0	0.05542		0.00000	0.3	0.3
							C:ETHS/NW	649									
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				-0.37659	-0.07863	116.1	9.8
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.38829	-0.03278	40.8	-3.4
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				-0.41611	-0.03142	37.4	-5.1
			NA	1350.8	4951.5	R	L: Interface	51 G-PJMEast			74.9	0.0	-0.05542		0.00000	-0.3	-0.3
							C:ETHS/NW	649									
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				0.37659	-0.07863	116.1	9.8
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1				0.38829	-0.03278	40.8	-3.4
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				0.41611	-0.03142	37.4	-5.1
			16319	1350.8	4951.5	*	L: Interface	51 G-PJMEast			74.9	0.0	-0.05542		0.00000	-0.3	-0.3
							C:ETHS/NW	649									
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1				0.37659	-0.07863	116.1	9.8
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1				0.38829	-0.03278	40.8	-3.4
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1				0.41611	-0.03142	37.4	-5.1
			19026	1367.4	4968		L:137451	LEEDS 3	345 137452 N.SCOT77	345 1	-1351.3	-1724.0	-0.27259		-0.17452	-865.1	-1103.7
							C:137451	5									
							Open	137451 LEEDS 3	345 137453 N.SCOT99	345 2				0.56507	-0.17356	-860.4	-1097.8
			19205	1375.4	4976.1		L:126294	PLTVLLEY	345 137451 LEEDS 3	345 2	-1430.5	-1725.0	-0.21412		-0.18065	-1281.5	-1530.0
							C:130750	192									
							Open	130750 COOPC345	345 130753 FRASR345	345 1				0.14988	-0.22333	-993.8	-1301.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19260	1379.6	4980.3		L:130750	COOPC345	345 130753 FRASR345 345 1	-1314.3	-1703.0	-0.28172		-0.22333	-993.8	-1301.9
							C:130750		196							
							Open 130750	COOPC345	345 147833 MARCY T1 345 1				0.43311	-0.13483	-740.0	-926.0
			19275	1381.7	4982.4		L:137451	LEEDS 3	345 137453 N.SCOT99 345 2	-1348.2	-1724.0	-0.27197		-0.17356	-860.4	-1100.2
							C:137451		4							
							Open 137451	LEEDS 3	345 137452 N.SCOT77 345 1				0.56387	-0.17452	-865.1	-1106.2
			19368	1427.8	5028.5		L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1425.5	-1725.0	-0.20977		-0.17191	-1241.5	-1486.9
							C:125000		1							
							Open 125000	HURLEY 3	345 125002 ROSETON 345 1				-0.27917	0.13559	659.1	852.7
			19447	1492.6	5093.3		L:130750	COOPC345	345 146754 MDTN TAP 345 1	1349.4	1793.0	0.29719		0.18786	872.9	1153.3
							C:125001		8							
							Open 125001	ROCK TAV	345 130750 COOPC345 345 2				-0.64201	-0.17030	-742.3	-996.5
			19448	1500.3	5101		L:130817	JENN 115	115 130819 KATEL115 115 1	-104.8	-159.0	-0.03612		-0.01804	-69.4	-96.4
							C:130753		200							
							Open 130753	FRASR345	345 130755 OAKDL345 345 1				0.06258	-0.28902	-566.1	-999.7
			19449	1514.1	5114.8		L:146758	CHESTER	138 146773 SGRFL138 138 1	225.0	317.0	0.06077		0.03425	139.9	191.7
							C:125001		9							
							Open 125001	ROCK TAV	345 146754 MDTN TAP 345 1				-0.19956	-0.13290	-426.4	-627.6
			NA	1516.1	5116.8	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14080		0.00000	452.2	452.2
							C:SIN:120		668							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 1				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 2				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126290 LADENTWN 345 1				-0.69167	0.23158	39.8	390.9
							Open 126263	BUCHANAN S	345 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			NA	1516.1	5116.8	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14080		0.00000	-452.2	-452.2
							C:SIN:130		669							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 1				0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 2				0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126290 LADENTWN 345 1				0.69167	0.23158	39.8	390.9
							Open 126263	BUCHANAN S	345 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			NA	1516.1	5116.8	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14080		0.00000	-452.2	-452.2
							C:SIN:120		668							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 1				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 2				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126290 LADENTWN 345 1				-0.69167	0.23158	39.8	390.9
							Open 126263	BUCHANAN S	345 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			NA	1516.1	5116.8	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14080		0.00000	452.2	452.2
							C:SIN:130		669							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 1				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126291 MILLWOOD 345 2				-0.06930	-0.13986	785.6	573.6
							Open 126263	BUCHANAN S	345 126290 LADENTWN 345 1				-0.69167	0.23158	39.8	390.9
							Open 126263	BUCHANAN S	345 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							
							Open 147798	IP#3 GEN	22.0 147832 IP3 345 NA							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			19513	1816.3	5417				Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
							L: Interface	23 QFW		910.7	0.0	-0.50142		-0.50142	1095.9	185.2	
							C:GEN:9 M		562								
									Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
			NA	1832.9	5433.5	R	L: Interface	23 QFW		919.4	0.0	-0.50161		-0.50142	1095.9	176.9	
							C:HQ-NY-7		777								
									Open 147827 MARCY765 765 147828 MASS 74	NA							
									Open 147828 MASS 765 765 180819 CHA-NY	NA							
									Open 147827 MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00041	624.3	625.0	
									Open 147827 MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00036	543.3	544.0	
									Open 156 MCY765SW	0.0 147827 MARCY74	NA						
									Open 147838 MASS230B	230 147839 MOSES E	230 1		0.00000	-0.00038	10.7	10.0	
									Open 147828 MASS 765 765 147838 MASS230	NA							
									Open 147837 MASS230A	230 147839 MOSES E	230 1		-0.09628	0.00000	18.8	18.8	
									Open 147828 MASS 765 765 147837 MASS230	NA							
									Open 158 MS765SW2	0.0 147828 MASS 74	NA						
									Open 157 MS765SW1	0.0 147828 MASS 74	NA						
									Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch						
									Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch						
									Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch						
									Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch						
			19514	1832.9	5433.5		L: Interface	23 QFW		919.4	0.0	-0.50161		-0.50142	1095.9	176.9	
							C:HQ-NY-7		777								
									Open 147827 MARCY765 765 147828 MASS 74	NA							
									Open 147828 MASS 765 765 180819 CHA-NY	NA							
									Open 147827 MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00041	624.3	625.0	
									Open 147827 MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00036	543.3	544.0	
									Open 156 MCY765SW	0.0 147827 MARCY74	NA						
									Open 147838 MASS230B	230 147839 MOSES E	230 1		0.00000	-0.00038	10.7	10.0	
									Open 147828 MASS 765 765 147838 MASS230	NA							
									Open 147837 MASS230A	230 147839 MOSES E	230 1		-0.09628	0.00000	18.8	18.8	
									Open 147828 MASS 765 765 147837 MASS230	NA							
									Open 158 MS765SW2	0.0 147828 MASS 74	NA						
									Open 157 MS765SW1	0.0 147828 MASS 74	NA						
									Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch						
									Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch						
									Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch						
									Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch						
			19515	1865.7	5466.4		L:125001	ROCK TAV	345 130750 COOPC345	345 2	-1261.0	-1793.0	-0.28517		-0.17030	-742.3	-1060.0
							C:SER:CMT		594								
									Open 130750 COOPC345	345 146754 MDTN TAP	345 1		-0.55571	0.18786	872.9	1223.4	
									Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1		0.07882	-0.13290	-426.4	-674.4	
			NA	1876.7	5477.3	R	L: Interface	23 QFW		941.0	0.0	-0.50142		-0.50142	1095.9	154.9	
							C:GEN:GIN		563								
									Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW dispatch					
			19518	1876.7	5477.3		L: Interface	23 QFW		941.0	0.0	-0.50142		-0.50142	1095.9	154.9	
							C:GEN:GIN		563								
									Remove unit 1 from bus 149140 GINNA 19	19.0	605.0	MW dispatch					
			19519	1891.1	5491.7		L:135872	SOUR-111	115 135873 SWDN-111	115 1	89.3	159.0	0.03684		0.02470	71.5	118.2
							C:147834		226								
									Open 147834 NIAG 345	345 149000 ROCH 345	345 1		0.04252	0.28567	418.2	958.4	
			19520	1902.9	5503.5		L:126294	PLTVLLEY	345 137451 LEEDS 3	345 2	-1353.5	-1725.0	-0.19521		-0.18065	-1281.5	-1625.3
							C:SER:CMT		594								

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									Open 130750 COOPC345 345 146754 MDTN TAP 345 1				-0.09359	0.18786	872.9	1230.3	
									Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1				-0.02274	-0.13290	-426.4	-679.3	
			19521	1914	5514.7		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2	-1354.0	-1725.0	-0.19385				-0.18065	-1281.5	-1627.3
								C:130750	196								
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					0.09788	-0.13483	-740.0	-998.1	
			19522	1928.4	5529.1		L: Interface	23 QFW	966.9	0.0	-0.50142				-0.50142	1095.9	129.0
								C:GEN:SEA	576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00003	0.00000	-0.1	-0.1	
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
			19523	1928.4	5529.1	*	L: Interface	23 QFW	966.9	0.0	-0.50142				-0.50142	1095.9	129.0
								C:GEN:SEA	574								
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
			19527	1954.7	5555.4		L:130819	KATEL115 115 130838 OAKDL115 115 1	-121.4	-192.0	-0.03612				-0.01804	-86.0	-121.2
								C:130753	200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.06258	-0.28902	-566.1	-1131.0	
			19528	1955	5555.7	*	L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2	-1345.1	-1725.0	-0.19433				-0.18065	-1281.5	-1634.7
								C:130750	195								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.07280	0.18786	872.9	1240.1	
			19530	1965.6	5566.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	99.5	173.0	0.03740				0.02916	77.9	135.2
								C:130754	205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.04136	0.19908	521.8	913.1	
			19531	1969.5	5570.2		L:130753	FRASR345 345 130755 OAKDL345 345 1	-762.3	-1380.0	-0.31365				-0.28902	-566.1	-1135.3
								C:130753	202								
								Open 130753 FRASR345 345 137200 EDIC 345 1					0.27552	-0.08941	-712.0	-888.1	
			NA	2024	5624.7	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1	319.0	240.0	-0.03902				-0.01987	162.2	122.0
								C:125021	29								
								Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					0.92978	-0.02059	168.6	126.9	
			NA	2029.6	5630.2	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1	319.2	240.0	-0.03902				-0.01987	162.2	121.9
								C:125020	25								
								Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1					0.92978	-0.02059	168.8	127.0	
			19540	2032.2	5632.8		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1	-83.3	-173.0	-0.04414				-0.02966	-62.1	-122.4
								C:147834	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.28567	418.2	998.7	
			19541	2034.2	5634.9		L:130757	WATRC345 345 130768 WATRC230 230 1	459.8	600.0	0.06893				-0.07350	264.1	114.6
								C:130755	206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.74954	-0.19002	-261.1	-647.7	
			19549	2064.3	5665		L: Interface	14 Leeds-PV	2663.5	3450.0	0.38098				0.35256	2523.0	3250.8
								C:SER:CMT	594								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.18265	0.18786	872.9	1260.7	
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.04437	-0.13290	-426.4	-700.8	
			19550	2064.9	5665.5		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2	-1214.4	-1724.0	-0.24678				-0.17356	-860.4	-1218.8
								C:BUS:N.S	615								
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.60778	-0.04380	-242.4	-332.8	
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.40442	0.00049	113.3	114.3	
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.33527	0.17221	820.4	1176.0	
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.26700	-0.04100	-84.4	-169.1	
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.20564	0.00000	0.0	0.0	
			19559	2075	5675.7		L:135452	LOCKPORT 115 135872 SOUR-111 115 1	93.2	159.0	0.03172				0.02470	74.8	126.0
								C:130754	205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03527	0.19908	521.8	934.9	
			19561	2076.6	5677.2		L: Interface	14 Leeds-PV	2664.4	3450.0	0.37832				0.35256	2523.0	3255.2
								C:130750	196								
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					-0.19102	-0.13483	-740.0	-1020.0	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19565	2084.9	5685.6		L:135452 LOCKPORT		115 135876 TELRDTP1 115 1	103.6	180.0	0.03664		0.02456	85.9	137.1
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04231	0.28567	418.2	1013.8
			19576	2100.4	5701		L:130750 COOPC345		345 130753 FRASR345 345 1	-1076.8	-1703.0	-0.29812		-0.22333	-993.8	-1462.9
							C:130753		203							
							Open 130753 FRASR345		345 147831 GILB 345 345 1				-0.39407	0.18980	210.7	609.3
			19582	2115	5715.6		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	445.8	562.0	0.05496				
							Base Case									
			19583	2117.2	5717.8		L: Interface 14		Leeds-PV	2647.1	3450.0	0.37925		0.35256	2523.0	3269.5
							C:130750		195							
							Open 130750 COOPC345		345 146754 MDTN TAP 345 1				0.14209	0.18786	872.9	1270.6
			NA	2125.7	5726.4	R	L: Interface 54		NYE-PJME	-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				0.60931	0.23158	-1041.8	-549.5
			NA	2125.7	5726.4	R	L: Interface 53		PJME-NYE	1087.0	787.0	-0.14111		0.00000	452.2	452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				-0.60931	0.23158	-1041.8	-549.5
			NA	2126.8	5727.4	R	L: Interface 54		NYE-PJME	-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				0.62193	0.22576	-1018.5	-538.3
			NA	2126.8	5727.4	R	L: Interface 53		PJME-NYE	1085.6	787.0	-0.14041		0.00000	452.2	452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				-0.62193	0.22576	-1018.5	-538.3
			19600	2150.1	5750.8		L:135850 SOUR-114		115 135861 MORTIMER 115 1	70.5	153.0	0.03835		0.02571	52.0	107.3
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04425	0.28567	418.2	1032.4
			19633	2169	5769.6		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	553.8	746.0	0.08862		0.05496	445.8	565.0
							C:125001		9							
							Open 125001 ROCK TAV		345 146754 MDTN TAP 345 1				-0.25331	-0.13290	-426.4	-714.7
			19650	2172.9	5773.6		L: Interface 14		Leeds-PV	2627.6	3450.0	0.37850		0.35256	2523.0	3289.1
							C:SER:PV		598							
							Open 103105 LONG MTN		345 103117 CTNY398 345 1				0.33670	0.07703	310.6	478.0
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				-0.23705	0.00000	0.2	0.2
			19651	2173	5773.6	*	L: Interface 14		Leeds-PV	2627.5	3450.0	0.37850		0.35256	2523.0	3289.1
							C:103117		362							
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				0.33670	0.07703	310.4	477.8
			19674	2176.9	5777.6		L:135872 SOUR-111		115 135873 SWDN-111 115 1	89.9	159.0	0.03172		0.02470	71.5	125.3
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.03527	0.19908	521.8	955.1
			21200	2199.3	5800		L:130764 MEYER230		230 131122 WTHRS230 230 1	-242.2	-430.0	-0.08541				
							Base Case									
			21248	2205	5805.6		L:135452 LOCKPORT		115 135851 SHEL-113 115 1	97.8	180.0	0.03728		0.02499	79.8	134.9
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04302	0.28567	418.2	1048.1
			21253	2206.4	5807.1		L:130836 N.WAV115		115 131018 LOUNSI15 115 1	48.5	173.0	0.05645		0.03625	20.7	100.7
							C:130755		206							
							Open 130755 OAKDL345		345 130757 WATRC345 345 1				-0.10626	-0.19002	-261.1	-680.4
			21289	2230	5830.6		L:130815 HINMNI15		115 135452 LOCKPORT 115 1	191.4	280.0	0.03973		0.02541	170.5	227.1
							C:147834		226							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21292	2234	5834.6		L:126294	PLTVLLEY	Open 147834 NIAG 345 345 149000 ROCH 345 345 1				0.05011	0.28567	418.2	1055.2
								C:SER:CMT	345 137455 ATHENS 345 1	-1310.0	-1725.0	-0.18577		-0.17191	-1241.5	-1625.5
									594							
									Open 130750 COOPC345 345 146754 MDTN TAP 345 1				-0.08906	0.18786	872.9	1292.5
									Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1				-0.02164	-0.13290	-426.4	-723.3
			21305	2247.4	5848.1		L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1310.4	-1725.0	-0.18447		-0.17191	-1241.5	-1627.8
									C:130750	196						
									Open 130750 COOPC345 345 147833 MARCY T1 345 1				0.09314	-0.13483	-740.0	-1043.0
			21306	2247.5	5848.2		L:130750	COOPC345	345 130753 FRASR345 345 1	-1143.6	-1703.0	-0.24892		-0.22333	-993.8	-1495.7
									C:137451	7						
									Open 137451 LEEDS 3 345 147831 GILB 345 345 1				0.16356	-0.15644	-915.6	-1267.2
			21310	2268.9	5869.5		L:130815	HINMN115	115 131611 HARIS115 115 1	-218.3	-306.0	-0.03864		-0.02473	-198.0	-254.1
									C:147834	226						
									Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.04868	0.28567	418.2	1066.3
			21323	2284.4	5885		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35816				
									Base Case							
			21324	2285.5	5886.2		L:137453	N.SCOT99	345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24547		-0.18464	-917.3	-1339.3
									C:SIN:160	671						
									Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.35320	0.17221	820.4	1214.0
									Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				-0.19917	0.00000	119.9	119.9
									Open 137235 PORTER 1 115 137246 VALLEY 115 1				-0.00023	-0.00018	74.9	74.5
			21325	2285.5	5886.2		L:137453	N.SCOT99	345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24547		-0.18464	-917.3	-1339.3
									C:SIN:150	670						
									Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.35320	0.17221	820.4	1214.0
									Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				-0.19919	0.00000	119.9	119.9
									Open 137235 PORTER 1 115 147905 ILION 115 1				-0.00016	-0.00011	88.8	88.6
			21327	2287.6	5888.3		L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1302.0	-1725.0	-0.18493		-0.17191	-1241.5	-1634.8
									C:130750	195						
									Open 130750 COOPC345 345 146754 MDTN TAP 345 1				-0.06928	0.18786	872.9	1302.6
			21329	2289	5889.7		L:130794	DELHI115	115 130851 SIDNT115 115 1	-33.5	-120.0	-0.03779		-0.02088	-0.4	-48.2
									C:130753	200						
									Open 130753 FRASR345 345 130755 OAKDL345 345 1				0.05851	-0.28902	-566.1	-1227.7
			21339	2315.4	5916		L:146758	CHESTER	138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03353		-0.03425	-175.4	-254.7
									C:SIN:430	683						
									Open 125002 ROSETON 345 126281 FISHKILL 345 1				-0.04251	-0.01681	1505.3	1466.4
			21340	2315.4	5916		L:146758	CHESTER	138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03353		-0.03425	-175.4	-254.7
									C:125002	10						
									Open 125002 ROSETON 345 126281 FISHKILL 345 1				-0.04251	-0.01681	1505.3	1466.4
			21347	2322.1	5922.8		L:130770	SHLDN230	230 131122 WTHRS230 230 1	231.9	430.0	0.08529				
									Base Case							
			21350	2325.3	5926		L:130764	MEYER230	230 131122 WTHRS230 230 1	-306.1	-540.0	-0.10060		-0.08541	-242.2	-440.8
									C:SER:HCV	608						
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.11956	-0.11652	-547.8	-818.8
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.03820	-0.03278	40.8	-35.4
			21359	2339.2	5939.8		L:135862	MUMFORD1	115 135866 NLEROYTA 115 1	-84.0	-173.0	-0.03803		-0.02966	-62.1	-131.5
									C:130754	205						
									Open 130754 KINTI345 345 149000 ROCH 345 345 1				-0.04206	0.19908	521.8	987.4
			21363	2343.7	5944.3	*	L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1292.5	-1725.0	-0.18456		-0.17191	-1241.5	-1644.4
									C:SER:PV	598						
									Open 103105 LONG MTN 345 103117 CTNY398 345 1				-0.16418	0.07703	310.6	491.1
									Open 103117 CTNY398 345 126294 PLTVLLEY 345 1				0.11559	0.00000	0.2	0.2
			21370	2349.9	5950.6		L:137451	LEEDS 3	345 137452 N.SCOT77 345 1	-1185.3	-1724.0	-0.22924		-0.17452	-865.1	-1275.2
									C:137451	7						



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 100508 SANDB115 115 100509 SB RCTOR 115 2				0.00002	0.00000	-0.1	-0.1
									Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch							
			22979	2468.1	6068.7		L:135851	SHEL-113 115 135874 SWDN-113 115 1	88.0	180.0	0.03728			0.02499	70.0	131.7
								C:147834	226							
			23007	2476	6076.6		L:131018	Open 147834 NIAG 345 345 149000 ROCH 345 345 1	14.5	143.0	0.05189	0.04303	0.28567	418.2	1123.2	
								L:131018	LOUNS115 115 131850 CNYOG115 115 1					0.03625	17.2	107.0
								C:BUS:WAT	633							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.05666	-0.11652	-547.8	-836.3
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.12284	-0.07350	264.1	82.1
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.05531	0.00000	22.7	22.7
			23014	2477.8	6078.4		L:135850	SOUR-114 115 135861 MORTIMER 115 1	71.2	153.0	0.03302		0.02571	52.0	115.7	
								C:130754	205							
									Open 130754 KINTI345 345 149000 ROCH 345 345 1				0.03670	0.19908	521.8	1015.0
			23019	2478.6	6079.3		L:130753	FRASR345 345 130755 OAKDL345 345 1	-631.2	-1380.0	-0.30211		-0.28902	-566.1	-1282.5	
								C:137453	12							
									Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				0.07093	-0.18464	-917.3	-1375.0
			23022	2479.4	6080		L:130770	SHLDN230 230 131122 WTHRS230 230 1	294.5	540.0	0.09903		0.08529	231.9	443.4	
								C:SER:HC-	602							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.11759	-0.11652	-547.8	-836.7
									Open 135277 FALCONER 115 200579 WARREN 115 1				0.05270	0.00065	-35.9	-34.2
			23050	2490.1	6090.7		L:135850	SOUR-114 115 135876 TELRDP1 115 1	-84.5	-180.0	-0.03835		-0.02571	-66.0	-130.0	
								C:147834	226							
									Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.04425	0.28567	418.2	1129.5
			23052	2493.2	6093.9		L:130753	FRASR345 345 130755 OAKDL345 345 1	-629.2	-1380.0	-0.30112		-0.28902	-566.1	-1286.7	
								C:SIN:150	670							
									Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.07028	0.17221	820.4	1249.8
									Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				-0.04607	0.00000	119.9	119.9
									Open 137235 PORTER 1 115 147905 ILION 115 1				0.00061	-0.00011	88.8	88.5
			23053	2493.2	6093.9		L:130753	FRASR345 345 130755 OAKDL345 345 1	-629.2	-1380.0	-0.30112		-0.28902	-566.1	-1286.7	
								C:SIN:160	671							
									Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.07028	0.17221	820.4	1249.8
									Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1				-0.04614	0.00000	119.9	119.9
									Open 137235 PORTER 1 115 137246 VALLEY 115 1				0.00092	-0.00018	74.9	74.5
			23055	2497.6	6098.2		L:135858	GOLAH115 115 135862 MUMFORD1 115 1	-62.8	-173.0	-0.04414		-0.02966	-41.6	-115.6	
								C:147834	226							
									Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.05070	0.28567	418.2	1131.7
			23062	2499.1	6099.8		L:130807	GOUDY115 115 130848 S.OWE115 115 1	-1.9	-143.0	-0.05645		-0.03625	25.8	-64.8	
								C:130755	206							
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.10626	-0.19002	-261.1	-736.0
			23069	2500.9	6101.6		L:130753	FRASR345 345 130755 OAKDL345 345 1	-657.2	-1380.0	-0.28902		-0.28902	-566.1	-1288.9	
								C:GEN:SEA	576							
									Open 100508 SANDB115 115 100509 SB RCTOR 115 2				0.00002	0.00000	-0.1	-0.1
									Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			23070	2500.9	6101.6	*	L:130753	FRASR345 345 130755 OAKDL345 345 1	-657.2	-1380.0	-0.28902		-0.28902	-566.1	-1288.9	
								C:GEN:SEA	574							
									Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			23071	2501.1	6101.7		L:131018	LOUNS115 115 131850 CNYOG115 115 1	-13.2	143.0	0.06244		0.03625	17.2	107.9	
								C:BUS:WAT	634							
									Open 130768 WATRC230 230 130772 SHRED230 230 1				0.24197	0.05293	73.0	205.4
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.18210	-0.07350	264.1	80.2
									Open 130763 HILSD230 230 130768 WATRC230 230 1				0.12851	0.00000	0.5	0.5
			23090	2513.4	6114.1		L:130848	S.OWE115 115 131850 CNYOG115 115 1	-12.6	-143.0	-0.05189		-0.03625	-15.2	-106.4	
								C:BUS:WAT	633							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.05666	-0.11652	-547.8	-840.7
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.12284	-0.07350	264.1	79.3
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.05531	0.00000	22.7	22.7
			23091	2515.6	6116.3		L:147834 NIAG 345		345 149000 ROCH 345 345 1	697.9	1685.0	0.39239		0.28567	418.2	1136.8
							C:130754		205							
									Open 130754 KINTI345 345 149000 ROCH 345 345 1				0.53609	0.19908	521.8	1022.6
			23118	2529.7	6130.4		L:146758 CHESTER		138 146771 SHOEM138 138 1	-175.4	-262.0	-0.03425				
							Base Case									
			23121	2532.2	6132.9		L:130848 S.OWE115		115 131850 CNYOG115 115 1	15.1	-143.0	-0.06244		-0.03625	-15.2	-107.0
							C:BUS:WAT		634							
									Open 130768 WATRC230 230 130772 SHRED230 230 1				-0.24197	0.05293	73.0	207.0
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.18210	-0.07350	264.1	78.0
									Open 130763 HILSD230 230 130768 WATRC230 230 1				-0.12851	0.00000	0.5	0.5
			23122	2533.5	6134.2		L:146771 SHOEM138		138 146772 SHOEMTAP 138 1	-445.8	-585.0	-0.05496				
							Base Case									
			23124	2533.9	6134.5		L:130764 MEYER230		230 131122 WTHRS230 230 1	-272.0	-540.0	-0.10578		-0.08541	-242.2	-458.6
							C:147834		226							
									Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.07130	0.28567	418.2	1142.0
			23127	2535.4	6136.1		L: Interface 53 PJME-NYE			598.1	787.0	0.07450		0.00000	452.2	452.2
							C:130753		200							
									Open 130753 FRASR345 345 130755 OAKDL345 345 1				-0.25776	-0.28902	-566.1	-1298.9
			23128	2535.4	6136.1		L: Interface 54 NYE-PJME			-598.1	-787.0	-0.07450		0.00000	-452.2	-452.2
							C:130753		200							
									Open 130753 FRASR345 345 130755 OAKDL345 345 1				0.25776	-0.28902	-566.1	-1298.9
			23132	2538.7	6139.4		L:130767 STOLE230		230 130770 SHLDN230 230 1	285.3	540.0	0.10035		0.08516	221.3	437.5
							C:SER:HCW		608							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.11956	-0.11652	-547.8	-843.6
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.03820	-0.03278	40.8	-42.4
			23133	2540.1	6140.8		L:135861 MORTIMER		115 135873 SWDN-111 115 1	-54.0	-153.0	-0.03899		-0.02614	-35.1	-101.5
							C:147834		226							
									Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.04499	0.28567	418.2	1143.8
			23135	2541.6	6142.2		L:135452 LOCKPORT		115 135851 SHEL-113 115 1	98.4	180.0	0.03209		0.02499	79.8	143.3
							C:130754		205							
									Open 130754 KINTI345 345 149000 ROCH 345 345 1				0.03569	0.19908	521.8	1027.7
			23139	2545.9	6146.6		L:130750 COOPC345		345 130753 FRASR345 345 1	-1092.1	-1703.0	-0.23995		-0.22333	-993.8	-1562.4
							C:125000		3							
									Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1				0.10935	-0.15196	-899.1	-1286.0
			23159	2559.7	6160.4		L:130750 COOPC345		345 130753 FRASR345 345 1	-1094.9	-1703.0	-0.23758		-0.22333	-993.8	-1565.5
							C:126294		120							
									Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2				0.07887	-0.18065	-1281.5	-1744.0
			23164	2566.9	6167.6		L:130767 STOLE230		230 130770 SHLDN230 230 1	286.1	540.0	0.09893		0.08516	221.3	439.9
							C:130757		374							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.11817	-0.11652	-547.8	-846.9
			23188	2589.5	6190.2		L:131018 LOUNS115		115 131850 CNYOG115 115 1	47.3	143.0	0.03697		0.03625	17.2	111.1
							C:130755		209							
									Open 130755 OAKDL345 345 131128 LAPEER 345 1				-0.05020	-0.01432	-599.0	-636.1
			23190	2590.1	6190.7		L:130767 STOLE230		230 130770 SHLDN230 230 1	283.8	540.0	0.09890		0.08516	221.3	441.9
							C:SER:HC		602							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.11759	-0.11652	-547.8	-849.6
									Open 135277 FALCONER 115 200579 WARREN 115 1				0.05270	0.00065	-35.9	-34.2
			23191	2590.2	6190.9		L:137200 EDIC		345 137452 N.SCOT77 345 1	1121.1	1724.0	0.23274		0.17221	820.4	1266.5
							C:137453		12							
									Open 137453 N.SCOT99 345 147833 MARCY T1 345 1				-0.32782	-0.18464	-917.3	-1395.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			23193	2592.5	6193.1		L:130750	COOPC345	345 130753 FRASR345 345 1	-1089.6	-1703.0	-0.23660		-0.22333	-993.8	-1572.8
								C:126294	121							
								Open 126294	PLTVLLEY 345 137455 ATHENS 345 1				0.07718	-0.17191	-1241.5	-1687.2
			23201	2595.4	6196		L:135861	MORTIMER	115 135874 SWDN-113 115 1	-50.4	-153.0	-0.03954		-0.02651	-31.3	-100.1
								C:147834	226							
								Open 147834	NIAG 345 345 149000 ROCH 345 345 1				-0.04563	0.28567	418.2	1159.6
			23207	2598	6198.6		L:131018	LOUNSI115	115 131850 CNYOG115 115 1	28.2	143.0	0.04421		0.03625	17.2	111.4
								C:130768	227							
								Open 130768	WATRC230 230 130772 SHRED230 230 1				0.15025	0.05293	73.0	210.5
			23227	2606.8	6207.5		L:135859	LAPPINS1	115 135866 NLEROYTA 115 1	87.8	173.0	0.03267		0.02916	77.9	153.9
								C:130764	221							
								Open 130764	MEYER230 230 131122 WTHRS230 230 1				-0.04101	-0.08541	-242.2	-464.8
			23228	2606.9	6207.6		L: Interface	53 PJME-NYE		622.4	787.0	0.06314		0.00000	452.2	452.2
								C:BUS:WAT	633							
								Open 130757	WATRC345 345 200769 HOMER CY 345 1				-0.42109	-0.11652	-547.8	-851.6
								Open 130757	WATRC345 345 130768 WATRC230 230 1				-0.19143	-0.07350	264.1	72.5
								Open 130755	OAKDL345 345 130757 WATRC345 345 1				-0.43803	0.00000	22.7	22.7
			23229	2606.9	6207.6		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.06314		0.00000	-452.2	-452.2
								C:BUS:WAT	633							
								Open 130757	WATRC345 345 200769 HOMER CY 345 1				0.42109	-0.11652	-547.8	-851.6
								Open 130757	WATRC345 345 130768 WATRC230 230 1				0.19143	-0.07350	264.1	72.5
								Open 130755	OAKDL345 345 130757 WATRC345 345 1				0.43803	0.00000	22.7	22.7
			23234	2607.9	6208.6		L:130815	HINMN115	115 135452 LOCKPORT 115 1	192.1	280.0	0.03369		0.02541	170.5	236.7
								C:130754	205							
								Open 130754	KINTI345 345 149000 ROCH 345 345 1				0.04157	0.19908	521.8	1041.0
			23251	2613.5	6214.2		L:131018	LOUNSI115	115 131850 CNYOG115 115 1	27.5	143.0	0.04421		0.03625	17.2	111.9
								C:SER:OAK	595							
								Open 130768	WATRC230 230 130772 SHRED230 230 1				0.15025	0.05293	73.0	211.3
								Open 130765	OAKDL230 230 130772 SHRED230 230 1							
								Open 130765	OAKDL230 230 130838 OAKDL115 115 1				-0.10159	0.00000	6.8	6.8
			23263	2615.2	6215.9		L:131018	LOUNSI115	115 131850 CNYOG115 115 1	17.2	112.0	0.03625				
								Base Case								
			23300	2619.8	6220.5		L:130815	HINMN115	115 135452 LOCKPORT 115 1	195.3	280.0	0.03231		0.02541	170.5	237.0
								C:130766	224							
								Open 130766	ROBIN230 230 130767 STOLE230 230 1				0.26884	0.02567	92.6	159.8
			23302	2620	6220.7		L:135859	LAPPINS1	115 135866 NLEROYTA 115 1	87.4	173.0	0.03266		0.02916	77.9	154.3
								C:130770	228							
								Open 130770	SHLDN230 230 131122 WTHRS230 230 1				0.04101	0.08529	231.9	455.4
			23303	2620.1	6220.7		L:131018	LOUNSI115	115 131850 CNYOG115 115 1	27.2	143.0	0.04421		0.03625	17.2	112.2
								C:130765	222							
								Open 130765	OAKDL230 230 130772 SHRED230 230 1				-0.15025	-0.05293	-66.5	-205.1
			23313	2620.9	6221.6		L:131018	LOUNSI115	115 131850 CNYOG115 115 1	27.1	143.0	0.04421		0.03625	17.2	112.2
								C:130765	223							
								Open 130765	OAKDL230 230 130838 OAKDL115 115 1				0.15025	0.05293	66.2	204.9
			23438	2626.3	6227		L:135859	LAPPINS1	115 135866 NLEROYTA 115 1	75.9	173.0	0.03697		0.02916	77.9	154.5
								C:130754	204							
								Open 130754	KINTI345 345 147834 NIAG 345 345 1				-0.04136	-0.18877	48.6	-447.1
			23505	2627.7	6228.4		L:130750	COOPC345	345 130753 FRASR345 345 1	-1080.1	-1703.0	-0.23707		-0.22333	-993.8	-1580.6
								C:BUS:N.S	616							
								Open 137453	N.SCOT99 345 147831 GILB 345 345 1				0.12469	-0.03336	-307.4	-395.0
								Open 137453	N.SCOT99 345 147833 MARCY T1 345 1				0.04434	-0.18464	-917.3	-1402.5
								Open 137453	N.SCOT99 345 137516 N.SCOT1 115 1				-0.00285	0.00064	120.3	122.0
								Open 137451	LEEDS 3 345 137453 N.SCOT99 345 2				0.00801	-0.17356	-860.4	-1316.5



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24649	2633.4	6234		L:130770	Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1	SHLDN230 230 131122 WTHRS230 230 1	261.8	540.0	0.10566	-0.01543	0.00000	1.6	1.6
								C:147834	226							
			24657	2633.8	6234.5		L:135859	Open 147834 NIAG 345 345 149000 ROCH 345 345 1	LAPPINS1 115 135866 NLEROTTA 115 1	87.0	173.0	0.03266	0.07130	0.28567	418.2	1170.4
								C:130767	226							
			24751	2641.9	6242.6		L:130848	Open 130767 STOLE230 230 130770 SHLDN230 230 1	S.OWE115 115 131850 CNYOG115 115 1	-26.2	-143.0	-0.04421	0.04101	0.08516	221.3	445.6
								C:130768	227							
			24752	2642.1	6242.8		L:130848	Open 130768 WATRC230 230 130772 SHRED230 230 1	S.OWE115 115 131850 CNYOG115 115 1	-45.3	-143.0	-0.03697	-0.15025	0.05293	73.0	212.8
								C:130755	209							
			24768	2645.6	6246.3		L:137200	Open 130755 OAKDL345 345 131128 LAPEER 345 1	EDIC 345 137452 N.SCOT77 345 1	1117.8	1724.0	0.22912	0.05020	-0.01432	-599.0	-636.8
								C:BUS:N.S	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.18531	-0.03336	-307.4	-395.6
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.38310	-0.18464	-917.3	-1405.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.09741	0.00064	120.3	122.0
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.11491	-0.17356	-860.4	-1319.6
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					-0.24149	0.00000	1.6	1.6
			24797	2653.2	6253.9		L:130815	HINMN115 115 131611 HARIS115 115 1		-219.0	-306.0	-0.03277	-0.24149	0.00000	1.6	1.6
								C:130754	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04038	0.19908	521.8	1050.0
			24809	2657.5	6258.1		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.5	-143.0	-0.04421	-0.04038	0.19908	521.8	1050.0
								C:SER:OAK	595							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					-0.15025	0.05293	73.0	213.6
								Open 130765 OAKDL230 230 130772 SHRED230 NA								
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					0.10159	0.00000	6.8	6.8
			24828	2664.1	6264.7		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.2	-143.0	-0.04421	0.10159	0.00000	6.8	6.8
								C:130765	222							
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					0.15025	-0.05293	-66.5	-207.5
			24830	2664.9	6265.6		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.2	-143.0	-0.04421	0.15025	-0.05293	-66.5	-207.5
								C:130765	223							
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.15025	0.05293	66.2	207.3
			24831	2664.9	6265.6		L:131018	LOUNS115 115 131850 CNYOG115 115 1		-20.9	143.0	0.06149	-0.15025	0.05293	66.2	207.3
								C:130763	219							
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.19958	0.12642	-190.6	146.3
			24833	2667	6267.7		L:130815	HINMN115 115 131611 HARIS115 115 1		-222.2	-306.0	-0.03144	0.19958	0.12642	-190.6	146.3
								C:130766	224							
								Open 130766 ROBIN230 230 130767 STOLE230 230 1					-0.26115	0.02567	92.6	161.0
			24834	2668.8	6269.5		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-15.2	-112.0	-0.03625	-0.26115	0.02567	92.6	161.0
								Base Case								
			24836	2669.9	6270.5		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-865.1	-1331.0	-0.17452				
								Base Case								
			24877	2696.5	6297.2		L:130848	S.OWE115 115 131850 CNYOG115 115 1		22.8	-143.0	-0.06149	-0.17452	-0.17452		
								C:130763	219							
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.19958	0.12642	-190.6	150.3
			24900	2710.3	6310.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1060.5	-1703.0	-0.23705	-0.19958	0.12642	-190.6	150.3
								C:125000	1							
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					-0.10122	0.13559	659.1	1026.6
			24902	2711.2	6311.9		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-860.4	-1331.0	-0.17356	-0.10122	0.13559	659.1	1026.6
								Base Case								
			24925	2724.6	6325.3		L:137451	LEEDS 3 345 147831 GILB 345 345 1		-1313.8	-1912.0	-0.21957	-0.17356	-0.17356	-915.6	-1341.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:BUS:N.S	616								
							Open 137453 N.SCOT99	345 147831 GILB 345	345 1				0.62610	-0.03336	-307.4	-398.3
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				0.16119	-0.18464	-917.3	-1420.4
							Open 137453 N.SCOT99	345 137516 N.SCOT1	115 1				0.03268	0.00064	120.3	122.0
							Open 137451 LEEDS 3	345 137453 N.SCOT99	345 2				0.07200	-0.17356	-860.4	-1333.3
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.10447	0.00000	1.6	1.6
			24926	2724.6	6325.3		L:130815 HINMN115	115 135452 LOCKPORT	115 1	191.0	280.0	0.03266		0.02541	170.5	239.7
							C:130764	221								
							Open 130764 MEYER230	230 131122 WTHRS230	230 1				-0.08488	-0.08541	-242.2	-474.9
			24946	2732.7	6333.4		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.4	173.0	0.03207		0.02916	77.9	157.6
							C:135850	673								
							Open 135850 SOUR-114	115 135876 TELRDTP1	115 1				-0.11295	-0.02571	-66.0	-136.3
			24948	2736.8	6337.5		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.9	173.0	0.03181		0.02916	77.9	157.7
							C:135452	599								
							Open 135452 LOCKPORT	115 135872 SOUR-111	115 1				0.10725	0.02470	74.8	142.4
			24949	2737.3	6338		L:130767 STOLE230	230 130770 SHLDN230	230 1	251.1	540.0	0.10553		0.08516	221.3	454.4
							C:147834	226								
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.07130	0.28567	418.2	1200.1
			24957	2740.7	6341.4		L:135452 LOCKPORT	115 135872 SOUR-111	115 1	73.1	159.0	0.03136		0.02470	74.8	142.5
							C:130754	204								
							Open 130754 KINTI345	345 147834 NIAG 345	345 1				-0.03527	-0.18877	48.6	-468.7
			24958	2744.1	6344.8		L:130753 FRASR345	345 137200 EDIC	345 1	-888.0	-1380.0	-0.17929		-0.08941	-712.0	-957.3
							C:130753	200								
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.31098	-0.28902	-566.1	-1359.2
			24960	2747.2	6347.8		L:130764 MEYER230	230 131122 WTHRS230	230 1	-273.0	-540.0	-0.09719		-0.08541	-242.2	-476.8
							C:130754	205								
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				-0.05915	0.19908	521.8	1068.7
			24961	2747.5	6348.1		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	84.3	173.0	0.03230		0.02916	77.9	158.0
							C:135850	672								
							Open 135850 SOUR-114	115 135861 MORTIMER	115 1				0.12194	0.02571	52.0	122.7
			24963	2747.7	6348.4	*	L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.6	173.0	0.03181		0.02916	77.9	158.0
							C:135872	706								
							Open 135872 SOUR-111	115 135873 SWDN-111	115 1				0.10725	0.02470	71.5	139.4
			24966	2750.5	6351.2		L:130764 MEYER230	230 131122 WTHRS230	230 1	-307.8	-540.0	-0.08444		-0.08541	-242.2	-477.1
							C:BUS:WAT	633								
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.06554	-0.11652	-547.8	-868.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.11714	-0.07350	264.1	61.9
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.05466	0.00000	22.7	22.7
			24968	2752	6352.7		L:130815 HINMN115	115 135452 LOCKPORT	115 1	190.1	280.0	0.03265		0.02541	170.5	240.4
							C:130770	228								
							Open 130770 SHLDN230	230 131122 WTHRS230	230 1				0.08488	0.08529	231.9	466.7
			24983	2758.7	6359.3		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21618		0.22255	1116.0	1729.9
							C:125002	10								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01681	1505.3	1459.0
			24984	2758.7	6359.3		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21618		0.22255	1116.0	1729.9
							C:SIN:430	683								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01681	1505.3	1459.0
			25007	2771.2	6371.8		L:130815 HINMN115	115 131611 HARIS115	115 1	-217.9	-306.0	-0.03178		-0.02473	-198.0	-266.5
							C:130764	221								
							Open 130764 MEYER230	230 131122 WTHRS230	230 1				0.08245	-0.08541	-242.2	-478.8
			25033	2780.6	6381.2		L:130815 HINMN115	115 135452 LOCKPORT	115 1	189.2	280.0	0.03264		0.02541	170.5	241.1
							C:130767	226								
							Open 130767 STOLE230	230 130770 SHLDN230	230 1				0.08488	0.08516	221.3	458.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			25038	2781	6381.7		L:136150	CLAY	345 137200 EDIC 345 2	770.0	1434.0	0.23878		0.17968	579.4	1079.1
							C:136150		715							
							Open 136150	CLAY	345 137200 EDIC 345 1				0.33000	0.17908	577.6	1075.6
			25067	2789.2	6389.8		L:130750	COOPC345	345 130753 FRASR345 345 1	-1047.7	-1703.0	-0.23495		-0.22333	-993.8	-1616.7
							C:BUS:N.S		615							
							Open 137452	N.SCOT77	345 137453 N.SCOT99 345 1				0.03869	-0.04380	-242.4	-364.6
							Open 137452	N.SCOT77	345 137516 N.SCOT1 115 1				0.01601	0.00049	113.3	114.7
							Open 137200	EDIC	345 137452 N.SCOT77 345 1				-0.05550	0.17221	820.4	1300.8
							Open 137450	ALPS345	345 137452 N.SCOT77 345 1				0.00921	-0.04100	-84.4	-198.8
							Open 137451	LEEDS 3	345 137452 N.SCOT77 345 1				-0.01098	0.00000	0.0	0.0
			25092	2794.2	6394.8		L:136150	CLAY	345 137200 EDIC 345 1	768.3	1434.0	0.23824		0.17908	577.6	1077.9
							C:136150		716							
							Open 136150	CLAY	345 137200 EDIC 345 2				0.32926	0.17968	579.4	1081.4
			25122	2798.5	6399.2		L:130815	HINMN115	115 131611 HARIS115 115 1	-217.1	-306.0	-0.03177		-0.02473	-198.0	-267.2
							C:130770		228							
							Open 130770	SHLDN230	230 131122 WTHRS230 230 1				-0.08245	0.08529	231.9	470.6
			25334	2809.2	6409.9		L: Interface	59 MarcySouths		1935.4	3048.0	0.39606		0.35816	1733.8	2740.0
							C:BUS:N.S		616							
							Open 137453	N.SCOT99	345 147831 GILB 345 345 1				-0.09642	-0.03336	-307.4	-401.1
							Open 137453	N.SCOT99	345 147833 MARCY T1 345 1				-0.15078	-0.18464	-917.3	-1436.0
							Open 137453	N.SCOT99	345 137516 N.SCOT1 115 1				-0.00329	0.00064	120.3	122.1
							Open 137451	LEEDS 3	345 137453 N.SCOT99 345 2				-0.03947	-0.17356	-860.4	-1348.0
							Open 137452	N.SCOT77	345 137453 N.SCOT99 345 1				0.02283	0.00000	1.6	1.6
			27909	2818.3	6419		L:130764	MEYER230	230 131122 WTHRS230 230 1	-256.6	-540.0	-0.10057		-0.08541	-242.2	-482.9
							C:LKWANA		652							
							Open 417	OXBOW	230 3070 LACKAWNA 230 1				0.11660	-0.12997	-123.7	-490.0
			28138	2827.1	6427.7		L:130815	HINMN115	115 131611 HARIS115 115 1	-216.2	-306.0	-0.03176		-0.02473	-198.0	-267.9
							C:130767		226							
							Open 130767	STOLE230	230 130770 SHLDN230 230 1				-0.08245	0.08516	221.3	462.1
			28188	2832.1	6432.7		L: Interface	32 F-To-G		4206.2	6118.0	0.67505		0.56481	3715.6	5315.2
							C:130750		192							
							Open 130750	COOPC345	345 130753 FRASR345 345 1				-0.49363	-0.22333	-993.8	-1626.3
			28234	2843.8	6444.5		L:135872	SOUR-111	115 135873 SWDN-111 115 1	69.8	159.0	0.03136		0.02470	71.5	141.8
							C:130754		204							
							Open 130754	KINTI345	345 147834 NIAG 345 345 1				-0.03527	-0.18877	48.6	-488.2
			28251	2847.2	6447.8		L:135851	SHEL-113	115 135874 SWDN-113 115 1	88.6	180.0	0.03210		0.02499	70.0	141.1
							C:130754		205							
							Open 130754	KINTI345	345 149000 ROCH 345 345 1				0.03569	0.19908	521.8	1088.6
			28262	2855.8	6456.4		L:130770	SHLDN230	230 131122 WTHRS230 230 1	262.8	540.0	0.09706		0.08529	231.9	475.5
							C:130754		205							
							Open 130754	KINTI345	345 149000 ROCH 345 345 1				0.05915	0.19908	521.8	1090.3
			28265	2856	6456.6	*	L:130750	COOPC345	345 130753 FRASR345 345 1	-1027.3	-1703.0	-0.23660		-0.22333	-993.8	-1631.6
							C:137451		6							
							Open 137451	LEEDS 3	345 137455 ATHENS 345 1				-0.07718	0.17191	433.7	924.7
			28286	2872.6	6473.3		L:135850	SOUR-114	115 135876 TELRTP1 115 1	-85.1	-180.0	-0.03302		-0.02571	-66.0	-139.9
							C:130754		205							
							Open 130754	KINTI345	345 149000 ROCH 345 345 1				-0.03671	0.19908	521.8	1093.7
			28295	2875.5	6476.2		L:130770	SHLDN230	230 131122 WTHRS230 230 1	297.5	540.0	0.08432		0.08529	231.9	477.2
							C:BUS:WAT		633							
							Open 130757	WATRC345	345 200769 HOMER CY 345 1				-0.06554	-0.11652	-547.8	-882.9
							Open 130757	WATRC345	345 130768 WATRC230 230 1				0.11714	-0.07350	264.1	52.7
							Open 130755	OAKDL345	345 130757 WATRC345 345 1				-0.05466	0.00000	22.7	22.7
			28310	2879.3	6480		L:135858	GOLAH115	115 135862 MUMFORD1 115 1	-63.5	-173.0	-0.03803		-0.02966	-41.6	-126.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130754								
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			-0.04206	0.19908	521.8	1095.0
			28314	2882.7	6483.3	*	L:131018	LOUNSI15 115 131850 CNYOG115 115 1		38.9	143.0	0.03610		0.03625	17.2	121.7
								C:131128								
								Open 131128	LAPBER 345 136153 LAFAYTTE 345 1				-0.03223	0.00493	-675.2	-661.0
			28326	2893.3	6494		L: Interface	35 NY-PJM		-2403.4	-3114.0	-0.24562		-0.24562	-1506.8	-2217.4
								C:GEN:SEA								
								Open 100508	SANDB115 115 100509 SB RCTOR 115 2				0.00004	0.00000	-0.1	-0.1
								Remove unit 1	from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			28327	2893.3	6494		L: Interface	19 PJM-NY		2403.4	3114.0	0.24562		0.24562	1506.8	2217.4
								C:GEN:SEA								
								Open 100508	SANDB115 115 100509 SB RCTOR 115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 1	from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			28328	2893.3	6494		L: Interface	35 NY-PJM		-2403.4	-3114.0	-0.24562		-0.24562	-1506.8	-2217.4
								C:GEN:SEA								
								Remove unit 1	from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			28329	2893.3	6494		L: Interface	19 PJM-NY		2403.4	3114.0	0.24562		0.24562	1506.8	2217.4
								C:GEN:SEA								
								Remove unit 1	from bus 102869 SBRK G1 25.0 1318.0 MW dispatch							
			28332	2895	6495.7		L: Interface	59 MarcySouthS		1810.7	3048.0	0.42739		0.35816	1733.8	2770.7
								C:130753								
								Open 130753	FRASR345 345 147831 GILB 345 345 1				0.36478	0.18980	210.7	760.2
			28352	2909.5	6510.2		L:130794	DELHI115 115 130838 OAKDL115 115 1		-73.8	-179.0	-0.03617		-0.01911	-40.4	-96.0
								C:130753								
								Open 130753	FRASR345 345 130755 OAKDL345 345 1				0.05900	-0.28902	-566.1	-1407.0
			28354	2910.7	6511.4		L: Interface	35 NY-PJM		-2399.1	-3114.0	-0.24562		-0.24562	-1506.8	-2221.7
								C:SIN:250								
								Open 100508	SANDB115 115 100509 SB RCTOR 115 2				0.00004	0.00000	-0.1	-0.1
								Remove unit 3	from bus 103563 MILL#3 24.0 1276.0 MW dispatch							
			28355	2910.7	6511.4		L: Interface	19 PJM-NY		2399.1	3114.0	0.24562		0.24562	1506.8	2221.7
								C:SIN:250								
								Open 100508	SANDB115 115 100509 SB RCTOR 115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 3	from bus 103563 MILL#3 24.0 1276.0 MW dispatch							
			28359	2912.1	6512.8		L:130753	FRASR345 345 147831 GILB 345 345 1		670.4	1524.0	0.29311		0.18980	210.7	763.4
								C:130750								
								Open 130750	COOPC345 345 130753 FRASR345 345 1				-0.46259	-0.22333	-993.8	-1644.2
			28363	2923.3	6524		L:130770	SHLDN230 230 131122 WTHRS230 230 1		246.4	540.0	0.10044		0.08529	231.9	481.3
								C:LKWANA-								
								Open 417	OXBOW 230 3070 LACKAWNA 230 1				-0.11660	-0.12997	-123.7	-503.6
			28365	2925.1	6525.8		L:130836	N.WAV115 115 131018 LOUNSI15 115 1		-9.7	173.0	0.06244		0.03625	20.7	126.8
								C:BUS:WAT								
								Open 130768	WATRC230 230 130772 SHRED230 230 1				0.24197	0.05293	73.0	227.8
								Open 130757	WATRC345 345 130768 WATRC230 230 1				-0.18210	-0.07350	264.1	49.1
								Open 130763	HILSD230 230 130768 WATRC230 230 1				0.12851	0.00000	0.5	0.5
			28367	2928.1	6528.8		L:130768	WATRC230 230 130772 SHRED230 230 1		140.7	440.0	0.10221		0.05293	73.0	228.0
								C:130755								
								Open 130755	OAKDL345 345 130757 WATRC345 345 1				-0.25937	-0.19002	-261.1	-817.5
			28370	2930.8	6531.5		L:135861	MORTIMER 115 135873 SWDN-111 115 1		-54.6	-153.0	-0.03357		-0.02614	-35.1	-111.8
								C:130754								
								Open 130754	KINTI345 345 149000 ROCH 345 345 1				-0.03732	0.19908	521.8	1105.2
			28373	2936.5	6537.2	*	L:130848	S.OWE115 115 131850 CNYOG115 115 1		-37.0	-143.0	-0.03610		-0.03625	-15.2	-121.7
								C:131128								
								Open 131128	LAPBER 345 136153 LAFAYTTE 345 1				0.03223	0.00493	-675.2	-660.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28381	2943.6	6544.3		L:137453 N.SCOT99		345 147833 MARCY T1 345 1	-1122.6	-1792.0	-0.22740		-0.18464	-917.3	-1460.8
							C:BUS:N.S		615							
							Open 137452 N.SCOT77		345 137453 N.SCOT99 345 1				-0.09197	-0.04380	-242.4	-371.3
							Open 137452 N.SCOT77		345 137516 N.SCOT1 115 1				0.02619	0.00049	113.3	114.8
							Open 137200 EDIC		345 137452 N.SCOT77 345 1				-0.28818	0.17221	820.4	1327.4
							Open 137450 ALPS345		345 137452 N.SCOT77 345 1				-0.06914	-0.04100	-84.4	-205.1
							Open 137451 LEEDS 3		345 137452 N.SCOT77 345 1				0.13842	0.00000	0.0	0.0
			28382	2944.5	6545.1		L: Interface 59 MarcySouths			1893.6	3048.0	0.39206		0.35816	1733.8	2788.4
							C:BUS:N.S		615							
							Open 137452 N.SCOT77		345 137453 N.SCOT99 345 1				-0.06563	-0.04380	-242.4	-371.4
							Open 137452 N.SCOT77		345 137516 N.SCOT1 115 1				-0.04917	0.00049	113.3	114.8
							Open 137200 EDIC		345 137452 N.SCOT77 345 1				0.18354	0.17221	820.4	1327.5
							Open 137450 ALPS345		345 137452 N.SCOT77 345 1				0.01360	-0.04100	-84.4	-205.2
							Open 137451 LEEDS 3		345 137452 N.SCOT77 345 1				-0.01140	0.00000	0.0	0.0
			28395	2958.6	6559.2		L: Interface 35 NY-PJM			-2387.3	-3114.0	-0.24562		-0.24562	-1506.8	-2233.5
							C:GEN:MLS		575							
							Open 100508 SANDB115		115 100509 SB RCTOR 115 2				0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3		24.0 1276.0 MW dispatch							
			28396	2958.6	6559.2		L: Interface 19 PJM-NY			2387.3	3114.0	0.24562		0.24562	1506.8	2233.5
							C:GEN:MLS		575							
							Open 100508 SANDB115		115 100509 SB RCTOR 115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3		24.0 1276.0 MW dispatch							
			28397	2958.6	6559.2		L: Interface 19 PJM-NY			2387.3	3114.0	0.24562		0.24562	1506.8	2233.5
							C:GEN:MLL		573							
							Remove unit 3 from bus 103563 MILL#3		24.0 1276.0 MW dispatch							
			28398	2958.6	6559.2		L: Interface 35 NY-PJM			-2387.3	-3114.0	-0.24562		-0.24562	-1506.8	-2233.5
							C:GEN:MLL		573							
							Remove unit 3 from bus 103563 MILL#3		24.0 1276.0 MW dispatch							
			28400	2964.7	6565.4		L:137200 EDIC		345 137452 N.SCOT77 345 1	820.4	1331.0	0.17221				
							Base Case									
			28402	2969.2	6569.9		L:130767 STOLE230		230 130770 SHLDN230 230 1	252.2	540.0	0.09694		0.08516	221.3	474.2
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.05915	0.19908	521.8	1112.9
			28407	2972.8	6573.4		L:137451 LEEDS 3		345 137455 ATHENS 345 1	983.5	1725.0	0.24941		0.17191	433.7	944.8
							C:126294		120							
							Open 126294 PLTVLLEY		345 137451 LEEDS 3 345 2				-0.42902	-0.18065	-1281.5	-1818.6
			28410	2982.7	6583.4		L:146769 RAMP138		138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06693		-0.03508	8.3	-96.3
							C:SIN:440		684							
							Open 125001 ROCK TAV		345 126297 RAMAPO 345 1				-0.14310	0.22255	1116.0	1779.8
			28411	2982.7	6583.4		L:146769 RAMP138		138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06693		-0.03508	8.3	-96.3
							C:125001		7							
							Open 125001 ROCK TAV		345 126297 RAMAPO 345 1				-0.14310	0.22255	1116.0	1779.8
			28413	2986.3	6587		L:130836 N.WAV115		115 131018 LOUNSI115 115 1	18.1	173.0	0.05189		0.03625	20.7	129.0
							C:BUS:WAT		633							
							Open 130757 WATRC345		345 200769 HOMER CY 345 1				-0.05666	-0.11652	-547.8	-895.8
							Open 130757 WATRC345		345 130768 WATRC230 230 1				-0.12284	-0.07350	264.1	44.6
							Open 130755 OAKDL345		345 130757 WATRC345 345 1				-0.05531	0.00000	22.7	22.7
			28414	2991.8	6592.4		L:130765 OAKDL230		230 130772 SHRED230 230 1	-134.2	-440.0	-0.10221		-0.05293	-66.5	-224.8
							C:130755		206							
							Open 130755 OAKDL345		345 130757 WATRC345 345 1				0.25937	-0.19002	-261.1	-829.6
			28416	2994.2	6594.9		L:130765 OAKDL230		230 130838 OAKDL115 115 1	134.0	440.0	0.10221		0.05293	66.2	224.7
							C:130755		206							
							Open 130755 OAKDL345		345 130757 WATRC345 345 1				-0.25937	-0.19002	-261.1	-830.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28417	2995	6595.6		L:135861	MORTIMER	115 135874 SWDN-113 115 1	-51.0	-153.0	-0.03404		-0.02651	-31.3	-110.7
								C:130754	205							
								Open 130754 KINTI345	345 149000 ROCH 345	345 1			-0.03785	0.19908	521.8	1118.0

### FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:10 <PC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 30240  
 First violation - -115965.5 MW.

Interface-1 Interface 4 MOSES SOUTH Init.Flow= 1373.32 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
D_EXPORT	GHI_IMPORT	3000.0	1	-115965	-114592		L: Interface 21 PJM-WEST			5312.1	0.0	0.04581		0.00305	5119.7	4766.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.05910	0.38695	624.3	-44248.7	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.05910	0.33650	543.3	-38478.8	
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	41958.3	
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.12742	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			2	-43942.7	-42569.4		L: Interface 20 PJM-CENT			3716.0	0.0	0.08456		0.00568	3274.5	3025.1
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.10905	0.38695	624.3	-16379.4	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.10905	0.33650	543.3	-14243.3	
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	15905.9	
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.32702	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3	-32429.2	-31055.9		L: Interface 23 QFW			995.1	0.0	0.03068		0.00773	1095.9	845.1
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00555	-0.14205	785.6	5392.3	
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00555	-0.14205	785.6	5392.3	
							Open 126263 BUCHANAN S 345 126290 LADENTW 345 1					0.09230	0.23158	39.8	-7470.2	
							Open 126263 BUCHANAN S 345 147832 IP3 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			4	-32429.2	-31055.9		L: Interface 23 QFW			995.1	0.0	0.03068		0.00773	1095.9	845.1
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00555	-0.14205	785.6	5392.3	
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00555	-0.14205	785.6	5392.3	
							Open 126263 BUCHANAN S 345 126290 LADENTW 345 1					0.09230	0.23158	39.8	-7470.2	
							Open 126263 BUCHANAN S 345 147832 IP3 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			5	-20570.2	-19196.9		L: Interface 26 ONTARIO-MICH			630.4	0.0	0.03065		0.00773	733.8	574.7
							C:GEN:IND PT 2-New1		773							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-2831.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.10150	0.22576	-1018.5	-5662.4
		6	-19546.6		-18173.3		L: Interface 26 ONTARIO-MICH			774	624.8	0.0	0.03196	0.00773	733.8	582.6	
								C:GEN:IND PT 3-New1									
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	2797.7
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						0.10463	0.23158	-1041.8	-5568.4
		7	-14724.4		-13351.1		L: Interface 62 C2PMM				-461.4	0.0	-0.03133	-0.01615	-353.6	-115.7	
								C:130755 OAKDL345 345 131128 LAPEER 345 1		209							
								Open 130755 OAKDL345 345 131128 LAPEER 345 1						0.17997	-0.08436	-599.0	643.1
		8	-14724.4		-13351.1		L: Interface 63 PJMW2C				461.4	0.0	0.03133	0.01615	353.6	115.7	
								C:130755 OAKDL345 345 131128 LAPEER 345 1		209							
								Open 130755 OAKDL345 345 131128 LAPEER 345 1						-0.17997	-0.08436	-599.0	643.1
		9	-12975.3		-11602		L: Interface 23 QFW				1066.5	0.0	0.08220	0.00773	1095.9	995.6	
								C:147839 MOSES E 230 147840 MOSES W 230 11		232							
								Open 147839 MOSES E 230 147840 MOSES W 230 1						-0.13272	-0.56108	221.2	7501.4
		10	-12620.3		-11247		L: Interface 26 ONTARIO-MICH				606.4	0.0	0.04805	0.00773	733.8	636.2	
								C:SIN:1201		668							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.01481	-0.14205	785.6	2578.3
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.01481	-0.14205	785.6	2578.3
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.15592	0.23158	39.8	-2882.8
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
		11	-12620.3		-11247		L: Interface 26 ONTARIO-MICH				606.4	0.0	0.04805	0.00773	733.8	636.2	
								C:SIN:1301		669							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.01481	-0.14205	785.6	2578.3
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.01481	-0.14205	785.6	2578.3
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.15592	0.23158	39.8	-2882.8
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
		12	-11425		-10051.6		L: Interface 62 C2PMM				-524.2	0.0	-0.04589	-0.01615	-353.6	-169.0	
								C:HQ-NY-765-New1		777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA							
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.04110	0.38695	624.3	-3796.6
								Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.04110	0.33650	543.3	-3301.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA							
								Open 147838 MASS230B 230 147839 MOSES E 230 1		NA				0.00000	-0.36172	10.7	4143.4
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1		NA				0.11489	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
		13	-11425		-10051.6		L: Interface 63 PJMW2C				524.2	0.0	0.04589	0.01615	353.6	169.0	
								C:HQ-NY-765-New1		777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA							
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.04110	0.38695	624.3	-3796.6
								Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.04110	0.33650	543.3	-3301.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA							
								Open 147838 MASS230B 230 147839 MOSES E 230 1		NA				0.00000	-0.36172	10.7	4143.4
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1		NA				-0.11489	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
		14	-6179.4		-4806.1		L: Interface 56 NYE-PJMEMORE				-1475.1	-1287.0	-0.03044	0.00000	-1299.4	-1299.4	
								C:130750 COOPC345 345 130753 FRASR345 345 1		192				0.17684	-0.17216	-993.8	70.0
								Open 130750 COOPC345 345 130753 FRASR345 345 1									
		15	-6179.4		-4806.1		L: Interface 55 PJME-NYEMORE				1475.1	1287.0	0.03044	0.00000	1299.4	1299.4	



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130750 COOPC345 345 130753 FRASR345 345 1	192							
			16	-5400.1	-4026.7		L: Interface	Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.17684	-0.17216	-993.8	70.0
								Interface 56 NYE-PJMENoRE		-1781.3	-1287.0	-0.09153		0.00000	-1299.4	-1299.4
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.12652	0.38695	624.3	-1465.3
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.12652	0.33650	543.3	-1273.8
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	1964.1
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.35738	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			17	-5400.1	-4026.7		L: Interface	Interface 55 PJME-NYNoRE		1781.3	1287.0	0.09153		0.00000	1299.4	1299.4
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.12652	0.38695	624.3	-1465.3
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.12652	0.33650	543.3	-1273.8
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	1964.1
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.35738	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			18	-5136.8	-3763.5		L: Interface	Interface 52 PJMEast-G		239.7	0.0	0.04666		0.00000	0.3	0.3
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.21456	0.21748	1116.0	-1.2
			19	-5136.8	-3763.5		L: Interface	Interface 51 G-PJMEast		-239.7	0.0	-0.04666		0.00000	-0.3	-0.3
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.21456	0.21748	1116.0	-1.2
			20	-5136.8	-3763.5		L: Interface	Interface 52 PJMEast-G		239.7	0.0	0.04666		0.00000	0.3	0.3
								C:SIN:4401	684							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.21456	0.21748	1116.0	-1.2
			21	-5136.8	-3763.5		L: Interface	Interface 51 G-PJMEast		-239.7	0.0	-0.04666		0.00000	-0.3	-0.3
								C:SIN:4401	684							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.21456	0.21748	1116.0	-1.2
			22	-5087	-3713.7		L: Interface	Interface 51 G-PJMEast		-318.2	0.0	-0.06255		0.00000	-0.3	-0.3
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.08646	0.38695	624.3	-1344.2
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.08646	0.33650	543.3	-1168.5
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	1850.8
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.23440	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			23	-5087	-3713.7		L: Interface	Interface 52 PJMEast-G		318.2	0.0	0.06255		0.00000	0.3	0.3
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.08646	0.38695	624.3	-1344.2
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.08646	0.33650	543.3	-1168.5





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147838 MASS230B 230 147839 MOSES E 230 1					-0.11255	-0.36172	10.7	5.4
			40	14.6	1387.9		L: Interface 40 ONT-Zoned	C:147837 MASS230A 230 147839 MOSES E 230 11	230	0.6	0.0	-0.04071	0.00000	-0.6	-0.6	
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.11255	-0.36172	10.7	5.4
			41	14.6	1387.9		L: Interface 40 ONT-Zoned	C:147838 MASS230B 230 147839 MOSES E 230 11	231	0.6	0.0	-0.04071	0.00000	-0.6	-0.6	
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.11255	-0.36172	10.7	5.4
		NA		14.6	1387.9	R	L: Interface 39 Zoned-ONT	C:147837 MASS230A 230 147839 MOSES E 230 11	230	-0.6	0.0	0.04071	0.00000	0.6	0.6	
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.11255	-0.36172	10.7	5.4
			42	14.6	1387.9		L: Interface 39 Zoned-ONT	C:147837 MASS230A 230 147839 MOSES E 230 11	230	-0.6	0.0	0.04071	0.00000	0.6	0.6	
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.11255	-0.36172	10.7	5.4
		NA		14.6	1387.9	R	L: Interface 40 ONT-Zoned	C:147838 MASS230B 230 147839 MOSES E 230 11	231	0.6	0.0	-0.04071	0.00000	-0.6	-0.6	
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.11255	-0.36172	10.7	5.4
			43	14.6	1387.9		L: Interface 40 ONT-Zoned	C:147828 MASS 765 765 147838 MASS230B 230 11	221	0.6	0.0	-0.04071	0.00000	-0.6	-0.6	
								Open 147828 MASS 765 765 147838 MASS230B 230 1					0.11255	-0.36172	10.7	5.4
			44	14.6	1387.9	*	L: Interface 40 ONT-Zoned	C:147828 MASS 765 765 147837 MASS230A 230 11	220	0.6	0.0	-0.04071	0.00000	-0.6	-0.6	
								Open 147828 MASS 765 765 147837 MASS230A 230 1					0.11255	-0.36172	10.7	5.4
			45	14.6	1387.9		L: Interface 39 Zoned-ONT	C:147828 MASS 765 765 147837 MASS230A 230 11	220	-0.6	0.0	0.04071	0.00000	0.6	0.6	
								Open 147828 MASS 765 765 147837 MASS230A 230 1					-0.11255	-0.36172	10.7	5.4
		NA		14.6	1387.9	R	L: Interface 39 Zoned-ONT	C:147828 MASS 765 765 147838 MASS230B 230 11	221	-0.6	0.0	0.04071	0.00000	0.6	0.6	
								Open 147828 MASS 765 765 147838 MASS230B 230 1					-0.11255	-0.36172	10.7	5.4
		NA		95.1	1468.4	R	L:125021 DC CBLTP 115 125041 N.CHELSE 115 1	C:125015 AC CBLTP 115 125041 N.CHELSE 115 1	16	319.8	316.0	-0.03983	-0.02097	168.6	166.6	
								Open 125015 AC CBLTP 115 125041 N.CHELSE 115 1					0.93208	-0.02024	162.2	160.3
		NA		102.7	1476.1	R	L:125021 DC CBLTP 115 125041 N.CHELSE 115 1	C:125015 AC CBLTP 115 125020 DANSKAMA 115 1	15	320.1	316.0	-0.03983	-0.02097	168.6	166.4	
								Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1					-0.93208	0.02024	-162.5	-160.5
			47	165.4	1538.7		L:131753 NOEND115 115 131833 NOEND3SS 13.8 1	Base Case		-70.1	-80.0	-0.05986				
			48	165.4	1538.7		L:131753 NOEND115 115 131831 NOEND1G\$ 13.8 1	Base Case		-70.1	-80.0	-0.05986				
			49	165.5	1538.8		L:131753 NOEND115 115 131832 NOEND2G\$ 13.8 1	Base Case		-70.1	-80.0	-0.05986				
			50	270	1643.3		L:126294 ELTVLLEY 345 137451 LEEDS 3 345 2	Base Case		-1281.5	-1331.0	-0.18315				
			51	344.6	1717.9		L:147767 MOS21-24 13.8 147840 MOSES W 230 6	C:GEN:SEAB&OMSI	576	199.4	258.0	0.17018		0.17018	199.0	257.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
			52	344.6	1717.9		L:147767 MOS21-24 13.8 147840 MOSES W 230 6	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch		199.4	258.0	0.17018		0.17018	199.0	257.7
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			53	344.6	1717.9		L:147767 MOS21-24 13.8 147840 MOSES W 230 6	C:GEN:MILLST 31	573	199.4	258.0	0.17018		0.17018	199.0	257.7
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			54	344.6	1717.9		L:147767 MOS21-24 13.8 147840 MOSES W 230 6	C:GEN:MLS3&OMSI	575	199.4	258.0	0.17018		0.17018	199.0	257.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			55	344.7	1718		L:147767 MOS21-24 13.8 147840 MOSES W 230 6	C:GEN:9 MI PT21	562	199.3	258.0	0.17018		0.17018	199.0	257.7
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			56	344.8	1718.1		L:147769 MOS25-28 13.8 147849 MOS 115 115 7	C:GEN:SEABROOK1	574	199.3	258.0	0.17018		0.17018	199.0	257.7
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			57	344.8	1718.1		L:147769 MOS25-28 13.8 147849 MOS 115 115 7	C:GEN:SEAB&OMSI	576	199.3	258.0	0.17018		0.17018	199.0	257.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			58	344.8	1718.2		L:147769 MOS25-28 13.8 147849 MOS 115 115 7	C:GEN:MLS3&OMSI	575	199.3	258.0	0.17018		0.17018	199.0	257.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			59	344.8	1718.2		L:147769 MOS25-28 13.8 147849 MOS 115 115 7			199.3	258.0	0.17018		0.17018	199.0	257.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:GEN:MILLST 31 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	573								
			60	344.8	1718.2		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:SEABROOK1 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	574								
			61	344.8	1718.2		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:SEAB&OMSI Open 100508 SANDB115 115 100509 SB RCTOR 115 2	576				0.00000	0.00000	-0.1	-0.1	
			62	344.8	1718.2		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:SALEM1 Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch	568								
			63	344.9	1718.2		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:MILLST 31 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	573								
			64	344.9	1718.2		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:MLS3&OMSI Open 100508 SANDB115 115 100509 SB RCTOR 115 2	575				0.00000	0.00000	-0.1	-0.1	
			65	344.9	1718.2		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 31 Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch	556								
			66	344.9	1718.2		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:PEACHBTM1 Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch	569								
			67	344.9	1718.3		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 21 Remove unit 2 from bus 126651 IND PT 2 22.0 1053.7 MW dispatch	555								
			68	344.9	1718.3		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:9 MI PT21 Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch	562								
			69	345	1718.3		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:9 MI PT21 Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch	562								
			70	345.1	1718.4		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:SALEM1 Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch	568								
			71	345.1	1718.4 *		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.3	258.0	0.17012		0.17018	199.0	257.8	
								C:GEN:IND PT 3-New1 Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	774				0.00000	-0.11640	522.5	482.3	
			73	345.1	1718.4		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17018		-0.00024	0.23158	-1041.8	-961.9
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2									
			74	345.1	1718.4		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 31 Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch	556								
			75	345.1	1718.5		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:PEACHBTM1 Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch	569								
			76	345.1	1718.5		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 21 Remove unit 2 from bus 126651 IND PT 2 22.0 1053.7 MW dispatch	555								
			78	345.2	1718.5		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 31 Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch	556								
			79	345.2	1718.5		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:PEACHBTM1 Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch	569								
			80	345.2	1718.5		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.3	258.0	0.17018		0.17018	199.0	257.7	
								C:GEN:IND PT 21 Remove unit 2 from bus 126651 IND PT 2 22.0 1053.7 MW dispatch	555								
			82	345.3	1718.6 *		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.3	258.0	0.17012		0.17018	199.0	257.8	
								C:GEN:IND PT 3-New1 Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	774				0.00000	-0.11640	522.5	482.3	
			84	345.3	1718.7 *		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.2	258.0	0.17012		0.17018	199.0	257.8	
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2									
								C:GEN:IND PT 3-New1 Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	774				0.00000	-0.11640	522.5	482.3	
			1711	346.4	1719.7		L:147767	MOS21-24 13.8 147840 MOSES W 230 6		199.0	258.0	0.17018		-0.00024	0.23158	-1041.8	-961.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Base Case								
			3589	346.6	1720		L:147769	MOS25-28 13.8 147849 MOS 115 115 7		199.0	258.0	0.17018				
								Base Case								
			5068	346.7	1720		L:147773	MOS29-32 13.8 147849 MOS 115 115 8		199.0	258.0	0.17018				
								Base Case								
			5358	353.1	1726.4		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.7	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:SEAB&OMSI Open 100508 SANDB115 115 100509 SB RCTOR 115 2	576				0.00000	0.00000	-0.1	-0.1
			5359	353.1	1726.4		L:147764	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
								MOS17-20 13.8 147839 MOSES E 230 5		200.7	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:SEABROOK1 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	574							
			5360	353.2	1726.5		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.7	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:MILLST 31 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	573							
			5361	353.2	1726.5		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.7	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:MLS3&OMSI Open 100508 SANDB115 115 100509 SB RCTOR 115 2	575				0.00000	0.00000	-0.1	-0.1
			5362	353.3	1726.6		L:147764	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
								MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:9 MI PT21 Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch	562							
			5363	353.4	1726.7		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:SALEM1 Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch	568							
			5364	353.5	1726.8		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:IND PT 31 Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch	556							
			5365	353.5	1726.8		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:PEACHETM1 Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch	569							
			5366	353.5	1726.8		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.7
								C:GEN:IND PT 21 Remove unit 2 from bus 126651 IND PT 2 22.0 1053.7 MW dispatch	555							
			5367	353.6	1727.4		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.6	258.0	0.16236		0.16236	200.3	257.8
								C:GEN:IND PT 3-New1 Open 147798 IP#3 GEN 22.0 147832 IP3 345 1	774				0.00000	-0.11640	522.5	481.3
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 2					-0.00024	0.23158	-1041.8	-959.9
			6927	355.1	1728.4		L:147764	MOS17-20 13.8 147839 MOSES E 230 5		200.3	258.0	0.16236				
			7129	388.8	1762.1		L: Interface	Interface 14 Leeds-PV		2523.0	2662.0	0.35745				
			NA	401.4	1774.7	R	L: Interface	Interface 52 PJMEast-G		14.2	0.0	-0.03530		0.00000	0.3	0.3
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				0.06291	-0.56108	221.2	-4.0
			7132	401.4	1774.7		L: Interface	Interface 51 G-PJMEast		-14.2	0.0	0.03530		0.00000	-0.3	-0.3
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				-0.06291	-0.56108	221.2	-4.0
			7133	401.4	1774.7		L: Interface	Interface 52 PJMEast-G		14.2	0.0	-0.03530		0.00000	0.3	0.3
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				0.06291	-0.56108	221.2	-4.0
			NA	401.4	1774.7	R	L: Interface	Interface 51 G-PJMEast		-14.2	0.0	0.03530		0.00000	-0.3	-0.3
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				-0.06291	-0.56108	221.2	-4.0
			7134	513.6	1886.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1241.5	-1331.0	-0.17430				
			7135	586.5	1959.8		L:146758	CHESTER 138 146773 SGRLF138 138 1		281.4	317.0	0.06063		0.03304	139.9	159.3
								C:SIN:4401 Open 125001 ROCK TAV 345 126297 RAMAPO 345 1	684				0.12684	0.21748	1116.0	1243.5
			7136	586.5	1959.8		L:146758	CHESTER 138 146773 SGRLF138 138 1		281.4	317.0	0.06063		0.03304	139.9	159.3
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1	7				0.12684	0.21748	1116.0	1243.5
			NA	612.4	1985.8	R	L: Interface	Interface 56 NYE-PJMEast		-1321.8	-1287.0	0.05675		0.00000	-1299.4	-1299.4
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				-0.10115	-0.56108	221.2	-122.4
			NA	612.4	1985.8	R	L: Interface	Interface 55 PJME-NYEMORE		1321.8	1287.0	-0.05675		0.00000	1299.4	1299.4
								C:147839 MOSES E 230 147840 MOSES W 230 11	232				0.10115	-0.56108	221.2	-122.4
			7137	626.4	1999.8		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1578.2	-1725.0	-0.23432		-0.18315	-1281.5	-1396.3
								C:125000 HURLEY 3 345 137451 LEEDS 3 345 1	3							
								Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1					0.32994	-0.15508	-899.1	-996.3







From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.05993	0.38695	624.3	1061.9
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.05993	0.33650	543.3	923.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-398.4
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05064	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12456	1142.9	2516.2		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		39.0	135.0	0.08403		0.04067	29.3	75.8
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.05993	0.38695	624.3	1066.5
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.05993	0.33650	543.3	927.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-402.7
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05064	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12457	1163.9	2537.2		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1		-37.4	-135.0	-0.08384		-0.04058	-27.8	-75.0
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.05979	0.38695	624.3	1074.6
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.05979	0.33650	543.3	934.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-410.3
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.05053	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12458	1181.6	2554.9		L:136759	BRNS FLS 115 136775 HIGLEY 115 1		-35.5	-135.0	-0.08422		-0.04077	-25.8	-74.0
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.06007	0.38695	624.3	1081.5
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.06007	0.33650	543.3	940.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-416.7
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.05076	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12459	1237.2	2610.6		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1351.3	-1724.0	-0.30127		-0.19294	-865.1	-1103.8
								C:137451 LEEDS 3 345 137453 N.SCOT99 345 21		5						
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.56507	-0.19170	-860.4	-1097.6
			12460	1238.4	2611.7		L:130750	COOPC345 345 130753 FRASR345 345 1		-993.8	-1207.0	-0.17216				



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:136759 BRNS FLS 115 136807 TAYLORVL 115 1	890							
			12471	1309.1	2682.4		L:136759	Open 136759 BRNS FLS 115 136807 TAYLORVL 115 1 BRNS FLS 115 136807 TAYLORVL 115 2		7.1	134.0	0.09693	0.62929	0.04067	29.3	82.2
								C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232							
			12472	1316.9	2690.2		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		47.7	135.0	0.06627		0.04067	29.3	82.9
								C:136759 BRNS FLS 115 136807 TAYLORVL 115 2 Open 136759 BRNS FLS 115 136807 TAYLORVL 115 2	891							
			12473	1319.4	2692.7		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		7.1	135.0	0.09693	0.62929	0.04067	29.3	82.9
								C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232							
			12474	1337.6	2710.9		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1		-5.7	-135.0	-0.09670	-0.10026	-0.56108	221.2	-519.1
								C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232							
			12475	1352.9	2726.2		L:136759	BRNS FLS 115 136775 HIGLEY 115 1		-3.6	-135.0	-0.09715	0.10003	-0.56108	221.2	-529.3
								C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232							
			12476	1358.4	2731.7		L:131753	NOEND115 115 147922 PLAT 115 115 1		111.1	287.0	0.12948	0.10048	-0.56108	221.2	-537.9
								Base Case								
			12477	1363.7	2737		L:136761	BU+LY+MO 115 137221 BOONVL 115 1		104.2	151.0	0.03435		0.02328	72.8	104.6
								C:136778 LOWVILLE 115 136807 TAYLORVL 115 1 Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1	917							
			12478	1363.7	2737		L:136761	BU+LY+MO 115 137221 BOONVL 115 1		104.2	151.0	0.03435	-0.47515	-0.02329	-66.0	-97.7
								C:Lowville-Taylorvl Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1	704							
			12479	1364.4	2737.7		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.08842		0.05343	445.8	518.7
								C:SIN:4401 Open 125001 ROCK TAV 345 126297 RAMAPO 345 1	684							
			12480	1364.4	2737.7		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.08842	0.16092	0.21748	1116.0	1412.7
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1 Open 125001 ROCK TAV 345 126297 RAMAPO 345 1	7							
			12481	1375	2748.3		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1		-45.1	-135.0	-0.06539	0.16092	0.21748	1116.0	1412.7
								C:136764 COLTON 115 136775 HIGLEY 115 1 Open 136764 COLTON 115 136775 HIGLEY 115 1	900							
			12482	1399.7	2773		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1		-43.5	-135.0	-0.06539	-0.60859	0.04077	28.4	84.5
								C:136759 BRNS FLS 115 136775 HIGLEY 115 1 Open 136759 BRNS FLS 115 136775 HIGLEY 115 1	888							
			12483	1404.5	2777.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1425.5	-1725.0	-0.21324	0.60859	-0.04077	-25.8	-82.9
								C:125000 HURLEY 3 345 125002 ROSETON 345 1 Open 125000 HURLEY 3 345 125002 ROSETON 345 1	1							
			12484	1408.6	2781.9		L:136759	BRNS FLS 115 136775 HIGLEY 115 1		-42.7	-135.0	-0.06551	-0.27917	0.13951	659.1	855.1
								C:136759 BRNS FLS 115 136771 FLAT RCK 115 1 Open 136759 BRNS FLS 115 136771 FLAT RCK 115 1	887							
			12485	1409.4	2782.7		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1430.5	-1725.0	-0.20896	0.60968	-0.04058	-27.8	-84.9
								C:130750 COOPC345 345 130753 FRASR345 345 1 Open 130750 COOPC345 345 130753 FRASR345 345 1	192							
			12486	1428.9	2802.3		L:136759	BRNS FLS 115 136775 HIGLEY 115 1		-41.4	-135.0	-0.06551	0.14988	-0.17216	-993.8	-1236.4
								C:136764 COLTON 115 136771 FLAT RCK 115 1 Open 136764 COLTON 115 136771 FLAT RCK 115 1	899							
			12487	1432.6	2805.9		L:136764	COLTON 115 136771 FLAT RCK 115 1		3.5	142.0	0.09670	-0.60968	0.04058	25.6	83.6
								C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232							
			12488	1435	2808.4		L:136764	COLTON 115 136775 HIGLEY 115 1		38.1	159.0	0.08422	-0.10003	-0.56108	221.2	-582.6
								C:HQ-NY-765-New1 Open 147827 MARCY765 765 147828 MASS 765 765 1	777							
								Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 1	NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 2	NA				0.06007	0.38695	624.3	1179.5
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA				0.06007	0.33650	543.3	1026.2
								Open 147838 MASS230B 230 147839 MOSES E 230 1	NA				0.00000	-0.36172	10.7	-508.4
								Open 147828 MASS 765 765 147838 MASS230B 230 1	NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1	NA				0.05076	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12489	1444	2817.3		L:136761	BU+LY+MO 115 137221 BOONVL 115 1		80.5	151.0	0.04884		0.02328	72.8	106.4
								C:HQ-NY-765-New1	777							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.03533	0.38695	624.3	1183.0
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.03533	0.33650	543.3	1029.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-511.6
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.02822	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
		12490	1468		2841.3		L:136778	LOWVILLE 115 136807 TAYLORVL 115 1 C:136761 BU+LY+MO 115 137221 BOONVL 115 1	893	-100.6	-151.0	-0.03435		-0.02329	-66.0	-100.1
								Open 136761 BU+LY+MO 115 137221 BOONVL 115 1					-0.47527	0.02328	72.8	107.0
		12491	1468		2841.3		L:136778	LOWVILLE 115 136807 TAYLORVL 115 1 C:Lyons Falls Tap1	705	-100.6	-151.0	-0.03435		-0.02329	-66.0	-100.1
								Open 136761 BU+LY+MO 115 137221 BOONVL 115 1					-0.47527	0.02328	72.8	107.0
		12492	1486.3		2859.6		L:147836	ADRON B2 230 147840 MOSES W 230 1 C:147839 MOSES E 230 147840 MOSES W 230 11	232	-44.3	-440.0	-0.26625		-0.09760	-110.7	-255.8
								Open 147839 MOSES E 230 147840 MOSES W 230 1					0.30058	-0.56108	221.2	-612.8
		12493	1486.3		2859.6		L:147835	ADRON B1 230 147840 MOSES W 230 1 C:147839 MOSES E 230 147840 MOSES W 230 11	232	-44.3	-440.0	-0.26625		-0.09760	-110.7	-255.8
								Open 147839 MOSES E 230 147840 MOSES W 230 1					0.30058	-0.56108	221.2	-612.8
		12494	1495.5		2868.8		L:131753	NOEND115 115 147922 PLAT 115 115 1 C:131752 ASHLY115 115 147922 PLAT 115 115 1	418	134.0	388.0	0.16983		0.12948	111.1	304.8
								Open 131752 ASHLY115 115 147922 PLAT 115 115 1					0.86435	0.04669	26.5	96.3
		12495	1515.5		2888.8		L:136764	COLTON 115 136771 FLAT RCK 115 1 C:136764 COLTON 115 136775 HIGLEY 115 1	900	42.9	142.0	0.06539		0.04058	25.6	87.1
								Open 136764 COLTON 115 136775 HIGLEY 115 1					0.60859	0.04077	28.4	90.2
		NA	1519.4		2892.7	R	L: Interface	54 NYE-PJME C:SIN:1301	669	-1000.5	-787.0	0.14049		0.00000	-452.2	-452.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126290 LADENTWV 345 1					0.69167	0.23158	39.8	391.7
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
		NA	1519.4		2892.7	R	L: Interface	53 PJME-NYE C:SIN:1301	669	1000.5	787.0	-0.14049		0.00000	452.2	452.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126290 LADENTWV 345 1					-0.69167	0.23158	39.8	391.7
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
		NA	1519.4		2892.7	R	L: Interface	54 NYE-PJME C:SIN:1201	668	-1000.5	-787.0	0.14049		0.00000	-452.2	-452.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126290 LADENTWV 345 1					0.69167	0.23158	39.8	391.7
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
		NA	1519.4		2892.7	R	L: Interface	53 PJME-NYE C:SIN:1201	668	1000.5	787.0	-0.14049		0.00000	452.2	452.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.14205	785.6	569.8
								Open 126263 BUCHANAN S 345 126290 LADENTWV 345 1					-0.69167	0.23158	39.8	391.7
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
		12496	1540.2		2913.5		L:136764	COLTON 115 136771 FLAT RCK 115 1 C:136759 BRNS FLS 115 136775 HIGLEY 115 1	888	41.3	142.0	0.06539		0.04058	25.6	88.1







From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
			12538	1856.7	3230		L:137928	Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
								CHASES L 230 147835 ADRON B1 230 1		-65.7	-560.0	-0.26625		-0.09760	-132.1	-313.4
								C:147839 MOSES E 230 147840 MOSES W 230 11	232							
			12539	1860.9	3234.2		L:126294	Open 147839 MOSES E 230 147840 MOSES W 230 1		-1354.0	-1725.0	-0.19937	0.30058	-0.56108	221.2	-820.6
								PLTVLLEY 345 137451 LEEDS 3 345 2						-0.18315	-1281.5	-1622.4
								C:130750 COOPC345 345 147833 MARCY T1 345 1	196							
			12540	1869.3	3242.7		L:136759	Open 130750 COOPC345 345 147833 MARCY T1 345 1					0.09788	-0.16572	-740.0	-1048.4
								BRNS FLS 115 136775 HIGLEY 115 1		-25.8	-102.0	-0.04077				
								Base Case								
			12541	1885.9	3259.2		L:136759	BRNS FLS 115 136807 TAYLORVL 115 2		29.3	106.0	0.04067				
								Base Case								
			12542	1886.1	3259.5		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1353.5	-1725.0	-0.19694		-0.18315	-1281.5	-1627.0
								C:SERCMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.09359	0.17744	872.9	1207.5
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.02274	-0.12402	-426.4	-660.3
			12543	1913.5	3286.9		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.26629		-0.19170	-860.4	-1227.3
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.60778	-0.02581	-242.4	-291.8
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.40442	-0.00555	113.3	102.7
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.33527	0.19798	820.4	1199.3
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.26700	-0.03640	-84.4	-154.1
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.20564	0.00000	0.0	0.0
			12544	1925.7	3299.1		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.29133		-0.22140	-917.3	-1343.7
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.19798	820.4	1201.7
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00023	0.00001	74.9	74.9
			12545	1925.8	3299.1		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.29133		-0.22140	-917.3	-1343.7
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.19798	820.4	1201.7
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					-0.00016	0.00000	88.8	88.8
			12546	1937.6	3310.9	*	L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1345.1	-1725.0	-0.19607		-0.18315	-1281.5	-1636.4
								C:130750 COOPC345 345 146754 MDTN TAP 345 1	195							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.07280	0.17744	872.9	1216.7
			12547	1949.7	3323		L:136758	BREMEN 115 136807 TAYLORVL 115 1		-84.0	-151.0	-0.03435		-0.02328	-52.7	-98.1
								C:136778 LOWVILLE 115 136807 TAYLORVL 115 1	917							
								Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1					0.47515	-0.02329	-66.0	-111.4
			12548	1949.7	3323		L:136758	BREMEN 115 136807 TAYLORVL 115 1		-84.0	-151.0	-0.03435		-0.02328	-52.7	-98.1
								C:Lowville-Taylorvl	704							
								Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1					0.47515	-0.02329	-66.0	-111.4
			12549	1957.5	3330.9		L:136764	COLTON 115 136771 FLAT RCK 115 1		33.8	142.0	0.05528		0.04058	25.6	105.0
								C:BrownsFalls 21	725							
								Open 136759 BRNS FLS 115 136775 HIGLEY 115 1					-0.66911	-0.04077	-25.8	-105.6
								Open 136759 BRNS FLS 115 136807 TAYLORVL 115 2					-0.30923	0.04067	29.3	108.9
			12552	1976.8	3350.1		L:136758	BREMEN 115 136761 BU+LY+MO 115 1		54.5	151.0	0.04884		0.02328	46.8	92.8
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.03533	0.38695	624.3	1389.2
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.03533	0.33650	543.3	1208.5
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-704.3
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.02822	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
			12553	1979.2	3352.5		L:125001	Set bus 181419 CHAT G4 120 load to357.0 MW dispatch		-1261.0	-1793.0	-0.26882		-0.16044	-742.3	-1059.8
								ROCK TAV 345 130750 COOPC345 345 2								
								C:SERCMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.55571	0.17744	872.9	1224.1
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.07882	-0.12402	-426.4	-671.9
		NA	1987.4	3360.7	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.0	240.0	-0.03973		-0.02024	162.2	122.0
								C:125021 DC CBLTP 115 125041 N.CHELSE 115 1	29							
								Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					0.92978	-0.02097	168.6	126.9
		NA	1992.9	3366.2	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.2	240.0	-0.03973		-0.02024	162.2	121.9



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
								C:125020 DANSKAMA 115 125021 DC CBLTP 115 1										
			12559	2019	3392.3		L: Interface 14 Leeds-PV	Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1		2664.4	3450.0	0.38911		0.92978	-0.02097	168.8	127.0	
								C:130750 COOPC345 345 147833 MARCY T1 345 1	196									
			12560	2019.1	3392.4		L:136778 LOWVILLE 115 137221 BOONVL 115 1	Open 130750 COOPC345 345 147833 MARCY T1 345 1					-0.19102	-0.16572	-740.0	-1074.6		
								C:HQ-NY-765-New1	777		52.4	151.0	0.04886		0.02329	44.7	91.7	
								Open 147827 MARCY765 765 147828 MASS 765 765 1										
								Open 147828 MASS 765 765 180819 CHA-NY 765 1										
								Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.03534	0.38695	624.3	1405.5	
								Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.03534	0.33650	543.3	1222.7	
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1										
								Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.36172	10.7	-719.6	
								Open 147828 MASS 765 765 147838 MASS230B 230 1										
								Open 147837 MASS230A 230 147839 MOSES E 230 1						0.02823	0.00000	18.8	18.8	
								Open 147828 MASS 765 765 147837 MASS230A 230 1										
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1										
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1										
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch										
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch										
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch										
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch										
			12561	2019.5	3392.9		L:136758 BREMEN 115 136807 TAYLORVL 115 1			-40.3	-151.0	-0.05484		-0.02328	-52.7	-99.7		
								C:147839 MOSES E 230 147840 MOSES W 230 11	232					0.05624	-0.56108	221.2	-911.9	
			12562	2038.7	3412		L:137453 N.SCOT99 345 147833 MARCY T1 345 1	Open 147839 MOSES E 230 147840 MOSES W 230 1		-1201.0	-1792.0	-0.28987		-0.22140	-917.3	-1368.7		
								C:137200 EDIC 345 137452 N.SCOT77 345 1	946									
			12566	2046.2	3419.5		L: Interface 14 Leeds-PV	Open 137200 EDIC 345 137452 N.SCOT77 345 1						-0.34584	0.19798	820.4	1224.1	
								C:SER:CMT34&MTR341	594									
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1						0.18265	0.17744	872.9	1235.9	
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.04437	-0.12402	-426.4	-680.2	
			12567	2048.7	3422		L:131753 NOEND115 115 147922 PLAT 115 115 1			120.4	388.0	0.13063		0.12948	111.1	376.4		
								C:131752 ASHLY115 115 131754 MASON115 115 1	417									
			12569	2070.6	3443.9		L:147852 PLAT TH3 115 147922 PLAT 115 115 3	Open 131752 ASHLY115 115 131754 MASON115 115 1						0.33673	0.00342	27.5	34.5	
								C:147839 MOSES E 230 147840 MOSES W 230 11							0.00000	-115.5	-115.5	
			12570	2080.6	3453.9		L:136750 ALCOA-NM 115 136767 DENNISON 115 1	Open 147839 MOSES E 230 147840 MOSES W 230 1						0.19833	-0.56108	221.2	-940.6	
								C:HQ-NY-765-New1	777		21.7	222.0	0.09628		0.03741	9.5	87.3	
								Open 147827 MARCY765 765 147828 MASS 765 765 1										
								Open 147828 MASS 765 765 180819 CHA-NY 765 1										
								Open 147827 MARCY765 765 147833 MARCY T1 345 1							0.08137	0.38695	624.3	1429.3
								Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.08137	0.33650	543.3	1243.4	
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1										
								Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.36172	10.7	-741.9	
								Open 147828 MASS 765 765 147838 MASS230B 230 1										
								Open 147837 MASS230A 230 147839 MOSES E 230 1						0.06943	0.00000	18.8	18.8	
								Open 147828 MASS 765 765 147837 MASS230A 230 1										
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1										
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1										
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch										
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch										
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch										
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch										
			12571	2083.4	3456.8		L:137210 PORTER 2 230 137928 CHASES L 230 1			-244.7	-560.0	-0.15132		-0.09760	-159.9	-363.2		
								C:137210 PORTER 2 230 147836 ADRON B2 230 1	955									
			12572	2087	3460.3		L:136778 LOWVILLE 115 137221 BOONVL 115 1	Open 137210 PORTER 2 230 147836 ADRON B2 230 1					0.55037	-0.09760	-154.2	-357.5		
								C:Lyons Falls Tap1	705		79.3	151.0	0.03435		0.02329	44.7	93.3	
			12573	2087	3460.3		L:136778 LOWVILLE 115 137221 BOONVL 115 1	Open 136761 BU+LY+MO 115 137221 BOONVL 115 1						0.47527	0.02328	72.8	121.4	
								C:136761 BU+LY+MO 115 137221 BOONVL 115 1	893						0.02329	44.7	93.3	
			12574	2098.3	3471.6		L: Interface 14 Leeds-PV	Open 136761 BU+LY+MO 115 137221 BOONVL 115 1						0.47527	0.02328	72.8	121.4	
								C:130750 COOPC345 345 146754 MDTN TAP 345 1	195		2647.1	3450.0	0.38266		0.35745	2523.0	3273.1	
			12576	2100.2	3473.5		L:136759 BRNS FLS 115 136807 TAYLORVL 115 2	Open 130750 COOPC345 345 146754 MDTN TAP 345 1						0.14209	0.17744	872.9	1245.2	
								C:136750 ALCOA-NM 115 147847 ALCOA N 115 1	867		41.8	134.0	0.04389		0.04067	29.3	114.7	
								Open 136750 ALCOA-NM 115 147847 ALCOA N 115 1						0.26941	0.01193	46.5	71.6	
			12577	2100.3	3473.6		L:137210 PORTER 2 230 147836 ADRON B2 230 1			-242.2	-560.0	-0.15132		-0.09760	-154.2	-359.2		

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:137210 PORTER 2 230 137928 CHASES L 230 1	954							
			12578	2102.1	3475.4		L:131753	Open 137210 PORTER 2 230 137928 CHASES L 230 1 NOEND115 115 147922 PLAT 115 115 1		110.5	388.0	0.13203	0.55037	-0.09760	-159.9	-364.9
								C:130784 CHATP115 115 147856 WILL 115 115 1	248							
			12579	2103	3476.3		L:131753	Open 130784 CHATP115 115 147856 WILL 115 115 1 NOEND115 115 147922 PLAT 115 115 1		115.7	388.0	0.12948	0.05408	0.04712	-12.0	87.0
								C:131754 MASON115 115 147932 ROUSES M 115 1	420							
			12580	2107.2	3480.6		L:137200	Open 131754 MASON115 115 147932 ROUSES M 115 1 EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.27213	0.21076	0.00000	21.8	21.8
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.22140	-917.3	-1383.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00024	0.00001	74.9	74.9
			12581	2107.3	3480.6		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.27213		0.19798	820.4	1237.6
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.22140	-917.3	-1383.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00016	0.00000	88.8	88.8
			12582	2112	3485.3		L:131753	NOEND115 115 147922 PLAT 115 115 1 C:130821 KENTS115 115 130825 LYONS115 115 1	323	110.8	388.0	0.13123		0.12948	111.1	384.6
								Open 130821 KENTS115 115 130825 LYONS115 115 1					0.05408	0.03230	-5.0	63.2
			12583	2112.6	3485.9		L:131753	NOEND115 115 147922 PLAT 115 115 1 C:130777 BRAIN115 115 130825 LYONS115 115 1	240	110.8	388.0	0.13123		0.12948	111.1	384.7
								Open 130777 BRAIN115 115 130825 LYONS115 115 1					-0.05408	-0.03230	6.4	-61.9
			12584	2112.6	3485.9		L:131753	NOEND115 115 147922 PLAT 115 115 1 C:130777 BRAIN115 115 130784 CHATP115 115 1	239	110.8	388.0	0.13123		0.12948	111.1	384.7
								Open 130777 BRAIN115 115 130784 CHATP115 115 1					0.05408	0.03230	-6.4	61.8
			12585	2116	3489.3		L:131753	NOEND115 115 147922 PLAT 115 115 1 C:130802 FLATR115 115 131754 MASON115 115 1	291	111.6	388.0	0.13063		0.12948	111.1	385.1
								Open 130802 FLATR115 115 131754 MASON115 115 1					-0.33673	-0.00342	-1.4	-8.6
			12586	2121.2	3494.5		L:136758	BREMEN 115 136761 BU+LY+MO 115 1 C:Lowville-Taylorv11	704	78.1	151.0	0.03435		0.02328	46.8	96.2
								Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1					-0.47515	-0.02329	-66.0	-115.4
			12587	2121.2	3494.5		L:136758	BREMEN 115 136761 BU+LY+MO 115 1 C:136778 LOWVILLE 115 136807 TAYLORVL 115 1	917	78.1	151.0	0.03435		0.02328	46.8	96.2
								Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1					-0.47515	-0.02329	-66.0	-115.4
			12588	2122.9	3496.3		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1 C:136750 ALCOA-NM 115 147847 ALCOA N 115 1	867	41.8	135.0	0.04389		0.04067	29.3	115.6
								Open 136750 ALCOA-NM 115 147847 ALCOA N 115 1					0.26941	0.01193	46.8	71.9
		NA		2125.7	3499.1	R	L: Interface	54 NYE-PJME C:GEN:IND PT 3-New1	774	-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.60931	0.23158	-1041.8	-549.5
		NA		2125.7	3499.1	R	L: Interface	53 PJME-NYE C:GEN:IND PT 3-New1	774	1087.0	787.0	-0.14111		0.00000	452.2	452.2
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.60931	0.23158	-1041.8	-549.5
		NA		2126.8	3500.1	R	L: Interface	53 PJME-NYE C:GEN:IND PT 2-New1	773	1085.6	787.0	-0.14041		0.00000	452.2	452.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.62193	0.22576	-1018.5	-538.3
		NA		2126.8	3500.1	R	L: Interface	54 NYE-PJME C:GEN:IND PT 2-New1	773	-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					0.62193	0.22576	-1018.5	-538.3
			12589	2127	3500.3		L:136758	BREMEN 115 136761 BU+LY+MO 115 1 C:147839 MOSES E 230 147840 MOSES W 230 11	232	34.4	151.0	0.05484		0.02328	46.8	96.3
								Open 147839 MOSES E 230 147840 MOSES W 230 1					-0.05624	-0.56108	221.2	-972.2
			12590	2129.6	3502.9	*	L:131753	NOEND115 115 147922 PLAT 115 115 1 C:HQ-NY-765-New1	777	111.2	388.0	0.12997		0.12948	111.1	386.9
								Open 147827 MARCY765 765 147828 MASS 765 765 1	NA							
								Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA							
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.00068	0.38695	624.3	1448.3
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.00068	0.33650	543.3	1259.9
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA							
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-759.6
								Open 147828 MASS 765 765 147838 MASS230B 230 1	NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.00065	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130750 COOPC345 345 147833 MARCY T1 345 1	196							
			14403	2261.9	3635.2		L:136759	Open 130750 COOPC345 345 147833 MARCY T1 345 1 BRNS FLS 115 136807 TAYLORVL 115 1		29.1	135.0	0.04681	0.25061	-0.16572	-740.0	-1114.3
								C:SER:MASS765/230_11	592							
								Open 147828 MASS 765 765 147837 MASS230A 230 1 Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.01697	-0.36172	10.7	-807.5
			14404	2261.9	3635.2		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		29.1	135.0	0.04681	0.02557	0.00000	0.0	0.0
								C:SER:MASS765/230_21	593							
								Open 147828 MASS 765 765 147838 MASS230B 230 1 Open 147838 MASS230B 230 147839 MOSES E 230 1					-0.01697	-0.36172	10.7	-807.5
			14405	2261.9	3635.2		L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		29.1	135.0	0.04681	0.02557	0.00000	0.0	0.0
								C:147837 MASS230A 230 147839 MOSES E 230 11 Open 147837 MASS230A 230 147839 MOSES E 230 1	230				-0.01697	-0.36172	10.7	-807.5
			14406	2261.9	3635.2	*	L:136759	BRNS FLS 115 136807 TAYLORVL 115 1		29.1	135.0	0.04681	0.04067	0.04067	29.3	121.3
								C:147838 MASS230B 230 147839 MOSES E 230 11 Open 147838 MASS230B 230 147839 MOSES E 230 1	231				-0.01697	-0.36172	10.7	-807.5
			14411	2265.6	3639		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1	9	553.8	746.0	0.08484	0.05343	0.05343	445.8	566.8
								C:125001 ROCK TAV 345 146754 MDTN TAP 345 1 Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1	9				-0.25331	-0.12402	-426.4	-707.4
			14413	2266.5	3639.8		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1	7	-1185.3	-1724.0	-0.23767	-0.19294	-0.19294	-865.1	-1302.4
								C:137451 LEEDS 3 345 147831 GILB 345 345 11 Open 137451 LEEDS 3 345 147831 GILB 345 345 1	7				0.34978	-0.12788	-915.6	-1205.4
			14414	2266.7	3640		L:137928	CHASES L 230 147835 ADRON B1 230 1	955	-217.0	-560.0	-0.15132	-0.09760	-0.09760	-132.1	-353.4
								C:137210 PORTER 2 230 147836 ADRON B2 230 1 Open 137210 PORTER 2 230 147836 ADRON B2 230 1	955				0.55037	-0.09760	-154.2	-375.4
			14415	2267.2	3640.5		L:126294	PLTVLLEY 345 137455 ATHENS 345 1	195	-1302.0	-1725.0	-0.18659	-0.17430	-0.17430	-1241.5	-1636.7
								C:130750 COOPC345 345 146754 MDTN TAP 345 1 Open 130750 COOPC345 345 146754 MDTN TAP 345 1	195				-0.06928	0.17744	872.9	1275.2
			14417	2272.8	3646.1		L:136778	LOWVILLE 115 137221 BOONVL 115 1	714	72.9	151.0	0.03435	0.02329	0.02329	44.7	97.6
								C:Boon-Taylor1	714				0.47527	0.02328	72.8	125.7
								Open 136761 BU+LY+MO 115 137221 BOONVL 115 1 Open 136761 BU+LY+MO 115 136848 LYNDL MR 115 1 Open 136758 BREMEN 115 136761 BU+LY+MO 115 1 Open 136758 BREMEN 115 136807 TAYLORVL 115 1	NA NA							
			14419	2282.5	3655.8		L:136216	LTHSE HL 115 136218 MALLORY 115 1	718	66.3	145.0	0.03448	0.02030	0.02030	-20.1	-20.1
								C:5+6_21	718				-0.30442	0.02329	-66.0	-119.1
								Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1 Open 136761 BU+LY+MO 115 137221 BOONVL 115 1 Open 136761 BU+LY+MO 115 136848 LYNDL MR 115 1 Open 136758 BREMEN 115 136761 BU+LY+MO 115 1 Open 136758 BREMEN 115 136807 TAYLORVL 115 1	NA NA				0.29878	0.00000	-20.1	-20.1
			14423	2288	3661.3		L:136761	BU+LY+MO 115 137221 BOONVL 115 1	717	73.1	151.0	0.03404	0.02328	0.02328	72.8	126.1
								C:5+61	717				-0.30937	-0.01736	9.2	-30.5
								Open 136216 LTHSE HL 115 136768 E WTRTWN 115 1 Open 136755 BLACK RV 115 136768 E WTRTWN 115 1 Open 136763 COFFEEN 115 136768 E WTRTWN 115 1 Open 136216 LTHSE HL 115 136755 BLACK RV 115 1					0.00000	0.01305	31.1	60.9
			14428	2297.5	3670.8		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2	7	-1180.8	-1724.0	-0.23644	-0.30937	-0.01741	4.6	-35.2
								C:137451 LEEDS 3 345 147831 GILB 345 345 11 Open 137451 LEEDS 3 345 147831 GILB 345 345 1	7				0.34988	-0.12788	-915.6	-1209.4
			14430	2299.6	3672.9		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1	593	-27.6	-135.0	-0.04671	-0.04058	-0.04058	-27.8	-121.1
								C:SER:MASS765/230_21	593				0.01693	-0.36172	10.7	-821.1
								Open 147828 MASS 765 765 147838 MASS230B 230 1 Open 147838 MASS230B 230 147839 MOSES E 230 1					-0.02551	0.00000	0.0	0.0
			14431	2299.6	3672.9		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1	592	-27.6	-135.0	-0.04671	-0.04058	-0.04058	-27.8	-121.1
								C:SER:MASS765/230_11	592				0.01693	-0.36172	10.7	-821.1
								Open 147828 MASS 765 765 147837 MASS230A 230 1 Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.02551	0.00000	0.0	0.0
			14432	2299.6	3672.9		L:136759	BRNS FLS 115 136771 FLAT RCK 115 1	230	-27.6	-135.0	-0.04671	-0.04058	-0.04058	-27.8	-121.1
								C:147837 MASS230A 230 147839 MOSES E 230 11 Open 147837 MASS230A 230 147839 MOSES E 230 1	230				0.01693	-0.36172	10.7	-821.1
			14433	2299.6	3672.9	*	L:136759	BRNS FLS 115 136771 FLAT RCK 115 1	231	-27.6	-135.0	-0.04671	-0.04058	-0.04058	-27.8	-121.1
								C:147838 MASS230B 230 147839 MOSES E 230 11 Open 147838 MASS230B 230 147839 MOSES E 230 1	231				0.01693	-0.36172	10.7	-821.1
			14436	2299.7	3673	*	L:126294	PLTVLLEY 345 137455 ATHENS 345 1	598	-1292.5	-1725.0	-0.18809	-0.17430	-0.17430	-1241.5	-1642.3
								C:SER:PV_LM_3981	598				-0.16418	0.08402	310.6	503.8
								Open 103105 LONG MTN 345 103117 CTNY398 345 1 Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					0.11559	0.00000	0.2	0.2
			14438	2301.9	3675.2		L:136764	COLTON 115 136771 FLAT RCK 115 1	25.6	119.0	0.04058					
								Base Case								
			14468	2331.4	3704.7		L:136759	BRNS FLS 115 136775 HIGLEY 115 1		-25.6	-135.0	-0.04692	-0.04077	-0.04077	-25.8	-120.8





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			16229	2492.6	3865.9		L:147827	MARCY765 765 147833 MARCY T1 345 1 C:137210 PORTER 2 230 147836 ADRON B2 230 1 Open 137210 PORTER 2 230 147836 ADRON B2 230 1	955	649.6	1654.0	0.40297		0.38695	624.3	1588.8
			16236	2495.4	3868.7		L:137210	PORTER 2 230 137730 ROTRDM.2 230 2 C:137204 JORDNVLL 230 137730 ROTRDM.2 230 1 Open 137204 JORDNVLL 230 137730 ROTRDM.2 230 1	950	355.1	560.0	0.08210	-0.16410	-0.09760	-154.2	-397.5
			16241	2496.4	3869.7		L:136764	COLTON 115 136771 FLAT RCK 115 1 C:147838 MASS230B 230 147839 MOSES E 230 11 Open 147838 MASS230B 230 147839 MOSES E 230 1	231	25.4	142.0	0.04671	0.33874	0.06009	260.6	410.5
			16242	2496.4	3869.7		L:136764	COLTON 115 136771 FLAT RCK 115 1 C:SER:MASS765/230_21 593 Open 147828 MASS 765 765 147838 MASS230B 230 1 Open 147838 MASS230B 230 147839 MOSES E 230 1		25.4	142.0	0.04671	-0.01693	-0.36172	10.7	-892.3
			16243	2496.4	3869.7		L:136764	COLTON 115 136771 FLAT RCK 115 1 C:SER:MASS765/230_11 592 Open 147828 MASS 765 765 147837 MASS230A 230 1 Open 147837 MASS230A 230 147839 MOSES E 230 1		25.4	142.0	0.04671	-0.01693	-0.36172	10.7	-892.3
			16244	2496.4	3869.7	*	L:136764	COLTON 115 136771 FLAT RCK 115 1 C:147837 MASS230A 230 147839 MOSES E 230 11 Open 147837 MASS230A 230 147839 MOSES E 230 1	230	25.4	142.0	0.04671	0.02551	0.00000	0.0	0.0
			16259	2501.6	3874.9		L:147827	MARCY765 765 147833 MARCY T1 345 1 C:137928 CHASES L 230 147835 ADRON B1 230 11 Open 137928 CHASES L 230 147835 ADRON B1 230 1	189	645.9	1654.0	0.40297	-0.01693	-0.36172	10.7	-892.3
			16262	2503.1	3876.4		L:130750	COOPC345 345 147833 MARCY T1 345 1 C:BUS:N.S._991 616 Open 137453 N.SCOT99 345 147831 GILB 345 345 1 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1 Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2 Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1		-855.3	-1345.0	-0.19563	-0.16410	-0.09760	-132.1	-376.3
			16263	2503.9	3877.2		L:136761	BU+LY+MO 115 137221 BOONVL 115 1 C:1+21 715 Open 136755 BLACK RV 115 136762 CLIMAX 115 1 Open 136762 CLIMAX 115 136788 N.CARTHG 115 1 Open 136755 BLACK RV 115 136772 FT. DRUM 115 1 Open 136766 DEFERIET 115 136772 FT. DRUM 115 1 Open 136766 DEFERIET 115 136807 TAYLORVL 115 1	NA	65.8	151.0	0.03404	-0.00740	0.00000	1.6	1.6
			16264	2504.8	3878.2		L: Interface 58 MarcySouthN C:BUS:N.S._771 615 Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1 Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1 Open 137200 EDIC 345 137452 N.SCOT77 345 1 Open 137450 ALPS345 345 137452 N.SCOT77 345 1 Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1		1717.9	2725.0	0.40205	0.30448	0.00000	-40.3	-40.3	
			16268	2509.1	3882.4	*	L:130753	FRASR345 345 137200 EDIC 345 1 C:137200 EDIC 345 137452 N.SCOT77 345 1 Open 137200 EDIC 345 137452 N.SCOT77 345 1	946	-859.0	-1380.0	-0.20763	-0.07150	0.00000	0.0	0.0
			16282	2514.3	3887.6		L:147827	MARCY765 765 147833 MARCY T1 345 1 C:GEN:9 MI PT21 562 Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch		681.1	1654.0	0.38695	-0.17926	0.19798	820.4	1317.2
			16292	2517.9	3891.2		L:137204	JORDNVLL 230 137210 PORTER 2 230 1 C:137210 PORTER 2 230 137730 ROTRDM.2 230 2 Open 137210 PORTER 2 230 137730 ROTRDM.2 230 2	953	-357.0	-560.0	-0.08063	-0.33267	0.06174	266.9	422.3
			16321	2530.3	3903.6		L:130750	COOPC345 345 147833 MARCY T1 345 1 C:SIN:1701 672 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1 Open 137235 PORTER 1 115 137246 VALLEY 115 1		-859.1	-1345.0	-0.19204	-0.16572	-0.16572	-740.0	-1159.4
			16322	2530.3	3903.6		L:130750	COOPC345 345 147833 MARCY T1 345 1 C:SIN:1801 673 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1 Open 137235 PORTER 1 115 147905 ILION 115 1		-859.1	-1345.0	-0.19204	0.11887	-0.22140	-917.3	-1477.5
			16324	2530.6	3903.9		L:147827	MARCY765 765 147833 MARCY T1 345 1 C:GEN:FITZPATR1 560 Open 136155 SCRIBA 345 147830 JA FITZP 345 1 Open 137200 EDIC 345 147830 JA FITZP 345 1 Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch		675.2	1654.0	0.38676	-0.08334	0.00000	119.9	119.9
			16333	2534.9	3908.2		L: Interface 58 MarcySouthN C:SIN:1601 671 Open 137200 EDIC 345 137452 N.SCOT77 345 1		1721.4	2725.0	0.39592		0.33786	1452.0	2308.4	
													0.29325	0.19798	820.4	1322.3



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.23971	0.00000	119.9	119.9
			16334	2534.9	3908.2		L: Interface 58 MarcySouthN	Open 137235 PORTER 1 115 137246 VALLEY 115 1		1721.4	2725.0	0.39592	0.00074	0.00001	74.9	74.9
							C:SIN:1501		670				0.33786	0.00000	1452.0	2308.4
							Open 137200 EDIC 345 137452 N.SCOT77 345 1						0.29325	0.19798	820.4	1322.3
							Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1						0.23977	0.00000	119.9	119.9
			16368	2546.8	3920.1		L:130784 CHATP115 115 147856 WILL 115 115 1	Open 137235 PORTER 1 115 147905 ILLION 115 1		-19.6	143.0	0.06386	0.00049	0.00000	88.8	88.8
							C:147844 PLAT T#4 230 147922 PLAT 115 115 11		244				0.04712	0.00000	-12.0	108.0
			16371	2547.2	3920.5		L:130784 CHATP115 115 147856 WILL 115 115 1	Open 147844 PLAT T#4 230 147922 PLAT 115 115 1		-19.7	143.0	0.06386	-0.18427	-0.09088	41.3	-190.2
							C:147844 PLAT T#4 230 147970 RYAN 230 11		245				0.04712	0.00000	-12.0	108.0
			16372	2547.6	3920.9		L:130784 CHATP115 115 147856 WILL 115 115 1	Open 147844 PLAT T#4 230 147970 RYAN 230 1		-19.3	143.0	0.06369	0.18427	0.09088	-41.4	190.1
							C:147843 PLAT T#1 230 147922 PLAT 115 115 11		243				0.04712	0.00000	-12.0	108.0
			16374	2547.7	3921.1		L:130784 CHATP115 115 147856 WILL 115 115 1	Open 147843 PLAT T#1 230 147922 PLAT 115 115 1		-19.3	143.0	0.06369	-0.18428	-0.08994	39.2	-190.0
							C:147843 PLAT T#1 230 147859 DULEY 230 11		242				0.04712	0.00000	-12.0	108.0
			16393	2554	3927.3		L:130750 COOPC345 345 147833 MARCY T1 345 1	Open 147843 PLAT T#1 230 147859 DULEY 230 1		-852.4	-1345.0	-0.19289	0.18428	0.08994	-39.2	189.9
							C:130753 FRASR345 345 137200 EDIC 345 1		202				-0.16572	-0.00000	-740.0	-1163.3
			16509	2569.1	3942.5		L:147827 MARCY765 765 147833 MARCY T1 345 1	Open 130753 FRASR345 345 137200 EDIC 345 1		642.4	1654.0	0.39375	0.15779	-0.17214	-712.0	-1151.6
							C:5+6_21		718				0.38695	0.38695	624.3	1618.4
							Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1						-0.14593	-0.02329	-66.0	-125.8
							Open 136761 BU+LY+MO 115 137221 BOONVL 115 1			NA			0.14593	0.02328	72.8	132.6
							Open 136761 BU+LY+MO 115 136848 LYNDL MR 115 1			NA						
							Open 136758 BREMEN 115 136761 BU+LY+MO 115 1									
							Open 136758 BREMEN 115 136807 TAYLORVL 115 1						0.10444	0.00000	-20.1	-20.1
			16530	2570.2	3943.5 *		L:147827 MARCY765 765 147833 MARCY T1 345 1	C:147852 PLAT T#3 115 147922 PLAT 115 115 31	264	659.5	1654.0	0.38695	0.38695	624.3	1618.8	
			16651	2573.1	3946.5		L:137453 N.SCOT99 345 147833 MARCY T1 345 1	Open 147852 PLAT T#3 115 147922 PLAT 115 115 3		-917.3	-1487.0	-0.22140	-0.30491	0.00000	-115.5	-115.5
			17641	2574.7	3948		L:136758 BREMEN 115 136761 BU+LY+MO 115 1	Base Case		71.2	151.0	0.03100	0.02328	0.00000	46.8	106.7
							C:Taylorville 11		720							
							Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1						-0.52175	-0.02329	-66.0	-125.9
							Open 136788 N CARTHG 115 136807 TAYLORVL 115 1						-0.17530	-0.01714	26.7	-17.4
							Open 136759 BRNS FLS 115 136807 TAYLORVL 115 1						-0.18274	0.04067	29.3	134.0
			17956	2578.9	3952.2		L:137200 EDIC 345 137452 N.SCOT77 345 1	Base Case		820.4	1331.0	0.19798				
			18297	2590.7	3964.1		L:136755 BLACK RV 115 136762 CLIMAX 115 1	C:5+6_21	718	-72.9	-151.0	-0.03014	-0.01781	0.00000	-41.5	-87.6
							Open 136778 LOWVILLE 115 136807 TAYLORVL 115 1						0.26471	-0.02329	-66.0	-126.3
							Open 136761 BU+LY+MO 115 137221 BOONVL 115 1						-0.26471	0.02328	72.8	133.1
							Open 136761 BU+LY+MO 115 136848 LYNDL MR 115 1			NA						
							Open 136758 BREMEN 115 136761 BU+LY+MO 115 1			NA						
							Open 136758 BREMEN 115 136807 TAYLORVL 115 1						-0.26214	0.00000	-20.1	-20.1
			18487	2592.4	3965.7		L:136216 LTHSE HL 115 136218 MALLORY 115 1	C:147839 MOSES E 230 147840 MOSES W 230 11	232	18.9	145.0	0.04864	0.02030	0.00000	30.1	82.7
							Open 147839 MOSES E 230 147840 MOSES W 230 1						-0.05051	-0.56108	221.2	-1233.4
			21103	2606	3979.4		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1	Base Case		-445.8	-585.0	-0.05343				
			21113	2606.5	3979.8		L:130750 COOPC345 345 147833 MARCY T1 345 1	C:137453 N.SCOT99 345 147833 MARCY T1 345 11	12	-846.2	-1345.0	-0.19136	-0.16572	-0.00000	-740.0	-1172.0
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						0.11577	-0.22140	-917.3	-1494.4
			21179	2611.3	3984.6		L:130750 COOPC345 345 147833 MARCY T1 345 1	C:BUS:N.S._771	615	-845.9	-1345.0	-0.19112	-0.16572	-0.00000	-740.0	-1172.8
							Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						0.02695	-0.02581	-242.4	-309.8
							Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1						0.03316	-0.00555	113.3	98.8
							Open 137200 EDIC 345 137452 N.SCOT77 345 1						-0.12803	0.19798	820.4	1337.4
							Open 137450 ALPS345 345 137452 N.SCOT77 345 1						-0.02281	-0.03640	-84.4	-179.5
							Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1						0.02238	0.00000	0.0	0.0
			21194	2612.3	3985.6		L:137204 JORDNVLL 230 137730 ROTRDM.2 230 1	C:137210 PORTER 2 230 137730 ROTRDM.2 230 2	953	349.4	560.0	0.08063	0.06009	0.00000	260.6	417.6
							Open 137210 PORTER 2 230 137730 ROTRDM.2 230 2						0.33267	0.06174	266.9	428.1
			21248	2617.3	3990.6		L:147837 MASS230A 230 147839 MOSES E 230 1	Base Case		10.7	-936.0	-0.36172				
			21249	2617.3	3990.6		L:147838 MASS230B 230 147839 MOSES E 230 1	Base Case		10.7	-936.0	-0.36172				
			21250	2617.3	3990.6		L:147828 MASS 765 765 147837 MASS230A 230 1			10.7	-936.0	-0.36172				





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			28394	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:SER:MASS765/230_21	593								
								Open 147828 MASS 765 765 147838 MASS230B 230 1					0.05198	-0.36172	10.7	-1014.1	
								Open 147838 MASS230B 230 147839 MOSES E 230 1					-0.07509	0.00000	0.0	0.0	
			28395	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:SER:MASS765/230_11	592								
								Open 147828 MASS 765 765 147837 MASS230A 230 1					0.05198	-0.36172	10.7	-1014.1	
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.07509	0.00000	0.0	0.0	
			28396	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147837 MASS230A 230 147839 MOSES E 230 11	230								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05198	-0.36172	10.7	-1014.2	
			28397	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147838 MASS230B 230 147839 MOSES E 230 11	231								
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.05198	-0.36172	10.7	-1014.2	
			28398	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147828 MASS 765 765 147837 MASS230A 230 11	220								
								Open 147828 MASS 765 765 147837 MASS230A 230 1					0.05198	-0.36172	10.7	-1014.2	
			28399	2833.3	4206.6		L:147836	ADRON B2 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147828 MASS 765 765 147838 MASS230B 230 11	221								
								Open 147828 MASS 765 765 147838 MASS230B 230 1					0.05198	-0.36172	10.7	-1014.2	
			28400	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:SER:MASS765/230_11	592								
								Open 147828 MASS 765 765 147837 MASS230A 230 1					0.05198	-0.36172	10.7	-1014.2	
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.07509	0.00000	0.0	0.0	
			28401	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:SER:MASS765/230_21	593								
								Open 147828 MASS 765 765 147838 MASS230B 230 1					0.05198	-0.36172	10.7	-1014.2	
								Open 147838 MASS230B 230 147839 MOSES E 230 1					-0.07509	0.00000	0.0	0.0	
			28402	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147837 MASS230A 230 147839 MOSES E 230 11	230								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05198	-0.36172	10.7	-1014.2	
			28403	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147838 MASS230B 230 147839 MOSES E 230 11	231								
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.05198	-0.36172	10.7	-1014.2	
			28404	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147828 MASS 765 765 147837 MASS230A 230 11	220								
								Open 147828 MASS 765 765 147837 MASS230A 230 1					0.05198	-0.36172	10.7	-1014.2	
			28405	2833.3	4206.6		L:147835	ADRON B1 230 147840 MOSES W 230 1			-110.2	-440.0	-0.11641	-0.09760	-110.7	-387.3	
								C:147828 MASS 765 765 147838 MASS230B 230 11	221								
								Open 147828 MASS 765 765 147838 MASS230B 230 1					0.05198	-0.36172	10.7	-1014.2	
			28408	2834.6	4207.9	*	L:147836	ADRON B2 230 147840 MOSES W 230 1			-123.0	-440.0	-0.11183	-0.09760	-110.7	-387.4	
								C:137200 EDIC 345 147833 MARCY T1 345 1	948								
								Open 137200 EDIC 345 147833 MARCY T1 345 1					0.04495	-0.31653	-272.9	-1170.1	
			28409	2834.6	4207.9	*	L:147835	ADRON B1 230 147840 MOSES W 230 1			-123.0	-440.0	-0.11183	-0.09760	-110.7	-387.4	
								C:137200 EDIC 345 147833 MARCY T1 345 1	948								
								Open 137200 EDIC 345 147833 MARCY T1 345 1					0.04495	-0.31653	-272.9	-1170.1	
			28430	2847.7	4221		L:136216	LTHSE HL 115 136218 MALLORY 115 1			31.2	145.0	0.03995	0.02030	30.1	87.9	
								C:HQ-NY-765-New1	777								
								Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
								Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.02716	0.38695	624.3	1726.2	
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.02716	0.33650	543.3	1501.5	
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.36172	10.7	-1019.4	
								Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.02601	0.00000	18.8	18.8	
								Open 147828 MASS 765 765 147837 MASS230A 230 1									
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			28475	2859	4232.3		L:137204	JORDNVLL 230 137210 PORTER 2 230 1			-268.2	-440.0	-0.06009				
								Base Case									
			28484	2859.9	4233.2		L:137210	PORTER 2 230 137928 CHASES L 230 1			-159.9	-439.0	-0.09760				
								Base Case									
			28498	2862.6	4235.9		L:130750	COOPC345 345 130753 FRASR345 345 1			-1076.8	-1703.0	-0.21874		-0.17216	-993.8	-1486.6
								C:130753 FRASR345 345 147831 GILB 345 345 1	203								
								Open 130753 FRASR345 345 147831 GILB 345 345 1					-0.39407	0.11821	210.7	549.1	
			28513	2863.8	4237.1		L:125001	ROCK TAV 345 126297 RAMAPO 345 1			1686.6	2283.0	0.20824		0.21748	1116.0	1738.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
								C:SIN:4301	683									
			28514	2863.8	4237.1		L:125001	Open 125002 ROSETON 345 126281 FISHKILL 345 1 ROCK TAV 345 126297 RAMAPO 345 1	10	1686.6	2283.0	0.20824	0.37909	-0.02438	1505.3	1435.5		
								C:125002 ROSETON 345 126281 FISHKILL 345 1 Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.02438	1505.3	1435.5		
			29977	2878.8	4252.1	*	L:136778	LOWVILLE 115 137221 BOONVL 115 1	721	61.5	151.0	0.03107		0.02329	44.7	111.7		
								C:Taylorville 21 Open 136759 BRNS FLS 115 136807 TAYLORVL 115 2 Open 136766 DEFERRET 115 136807 TAYLORVL 115 1 Open 136758 BREMEN 115 136807 TAYLORVL 115 1 Open 136786 MOSH-SUN 115 136807 TAYLORVL 115 1										
			29979	2879.3	4252.7		L:136758	BREMEN 115 136807 TAYLORVL 115 1	717	-53.0	-151.0	-0.03404		-0.02328	-52.7	-119.7		
								C:5+61 Open 136216 LTHSE HL 115 136768 E WTRTWN 115 1 Open 136755 BLACK RV 115 136768 E WTRTWN 115 1 Open 136763 COFFEEN 115 136768 E WTRTWN 115 1 Open 136216 LTHSE HL 115 136755 BLACK RV 115 1					0.30937	-0.01736	9.2	-40.8		
			29997	2883.2	4256.5		L: Interface	32 F-To-G	192	4206.2	6118.0	0.66308		0.57810	3715.6	5382.4		
			30001	2884.5	4257.9		L:137453	C:130750 COOPC345 345 130753 FRASR345 345 1 Open 130750 COOPC345 345 130753 FRASR345 345 1 N.SCOT99 345 147833 MARCY T1 345 1 C:130750 COOPC345 345 147833 MARCY T1 345 1 Open 130750 COOPC345 345 147833 MARCY T1 345 1	196	-1060.7	-1792.0	-0.25352	-0.49363	-0.17216	-993.8	-1490.2		
			30035	2891.6	4264.9		L:137210	PORTER 2 230 137730 ROTRDM.2 230 2	672	342.1	560.0	0.07537		0.06174	266.9	445.4		
								C:SIN:1701 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1 Open 137235 PORTER 1 115 137246 VALLEY 115 1										
			30037	2891.6	4264.9		L:137210	PORTER 2 230 137730 ROTRDM.2 230 2	673	342.1	560.0	0.07537		0.06174	266.9	445.4		
								C:SIN:1801 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1 Open 137235 PORTER 1 115 147905 ILION 115 1										
			30052	2897.5	4270.9		L:130750	COOPC345 345 130753 FRASR345 345 1 C:137451 LEEDS 3 345 147831 GILB 345 345 11 Open 137451 LEEDS 3 345 147831 GILB 345 345 1	7	-1143.6	-1703.0	-0.19307	0.16356	-0.12788	-915.6	-1286.1		
			30068	2905.1	4278.5		L:130777	BRAIN115 115 130784 CHATP115 115 1 C:147846 WILLIS W 230 147970 RYAN 230 11 Open 147846 WILLIS W 230 147970 RYAN 230 1	250	-9.9	143.0	0.05262		0.03230	-6.4	87.4		
			30089	2918	4291.3		L:137210	PORTER 2 230 147836 ADRON B2 230 1		-154.2	-439.0	-0.09760		-0.18427	-0.11025	18.8	-301.5	
			30090	2920.6	4293.9		L:137453	N.SCOT99 345 147833 MARCY T1 345 1 C:130753 FRASR345 345 137200 EDIC 345 1 Open 130753 FRASR345 345 137200 EDIC 345 1	202	-1051.0	-1792.0	-0.25372		-0.22140	-917.3	-1563.9		
			30094	2923.3	4296.6		L:100511	GRAND IS 115 147852 PLAT T#3 115 1 C:147839 MOSES E 230 147840 MOSES W 230 11 Open 147839 MOSES E 230 147840 MOSES W 230 1	232	-70.7	-396.0	-0.11128	0.18775	-0.17214	-712.0	-1214.7		
			30110	2932.1	4305.5		L:137451	LEEDS 3 345 137455 ATHENS 345 1 C:126294 PLTVLLEY 345 137451 LEEDS 3 345 2 Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2	120	983.5	1725.0	0.25287	0.19833	-0.56108	221.2	-1419.0		
			30118	2938.3	4311.6	*	L: Interface	58 MarcySouthN C:130755 OAKDL345 345 131128 LAPEER 345 1 Open 130755 OAKDL345 345 131128 LAPEER 345 1	209	1650.2	2725.0	0.36578		0.33786	1452.0	2444.7		
			30124	2941.4	4314.7		L:147844	PLAT T#4 230 147922 PLAT 115 115 1 C:147859 DULEY 230 147980 PATNODE 230 11 Open 147859 DULEY 230 147980 PATNODE 230 1	265	61.1	-392.0	-0.15405	-0.33095	-0.08436	-599.0	-846.8		
			30125	2941.6	4314.9		L:147844	PLAT T#4 230 147922 PLAT 115 115 1 C:147845 WILLIS E 230 147980 PATNODE 230 11 Open 147845 WILLIS E 230 147980 PATNODE 230 1	248	61.2	-392.0	-0.15405	-0.64911	0.09733	-30.6	255.7		
			30127	2942.4	4315.7		L:147844	PLAT T#4 230 147970 RYAN 230 1 C:147859 DULEY 230 147980 PATNODE 230 11 Open 147859 DULEY 230 147980 PATNODE 230 1	265	-61.3	392.0	0.15405	0.64911	-0.09733	30.7	-255.6		
			30128	2942.6	4315.9		L:147844	PLAT T#4 230 147970 RYAN 230 1 C:147845 WILLIS E 230 147980 PATNODE 230 11 Open 147845 WILLIS E 230 147980 PATNODE 230 1	248	-61.3	392.0	0.15405		0.09088	-41.4	226.0		
			30129	2944.1	4317.4		L: Interface	59 MarcySouthS C:BUS:N.S._91 Open 137453 N.SCOT99 345 147831 GILB 345 345 1 Open 137453 N.SCOT99 345 147833 MARCY T1 345 1 Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1 Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2	616	1935.4	3048.0	0.37792		-0.64911	-0.09733	30.7	-255.7	
														0.33788	1733.8	2728.6		
															-0.09642	0.00967	-307.4	-278.9
															-0.15078	-0.22140	-917.3	-1569.1
															-0.00329	-0.00578	120.3	103.3
															-0.03947	-0.19170	-860.4	-1424.8



## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:12 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33732  
 First violation - -168790.9 MW.

Interface-1 Interface 6 CENTRAL EAST Init.Flow= 2394.06 TDF= 0.4542

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_E_EXP	GHI_IMPORT	3000.0	1	-168790	-74270.3		L: Interface 21 PJM-WEST			5144.2	0.0	0.03048		0.04851	5119.7	-3068.1
							C:SER:C398/NWES1		606							
							Open 409 GROVER	230 200675 E.TWANDA	230 1				0.06508	0.00121	-15.5	-220.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17331	-0.07681	116.1	13081.4
							Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01303	-0.00624	-52.6	1001.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.14729	-0.03203	40.8	5446.7
			2	-168568	-74169.1		L: Interface 21 PJM-WEST			5145.8	0.0	0.03053		0.04851	5119.7	-3057.3
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17129	-0.07681	116.1	13064.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.15067	-0.03203	40.8	5439.6
			3	-150404	-65919.4		L: Interface 21 PJM-WEST			5140.3	0.0	0.03418		0.04851	5119.7	-2176.2
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.13790	-0.07681	116.1	11669.1
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.12173	-0.03072	37.4	4658.5
			4	-131914	-57521.3		L: Interface 21 PJM-WEST			5134.2	0.0	0.03892		0.04851	5119.7	-1279.3
							C:130763 HILSD230	230 200675 E.TWANDA		375						
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.12483	-0.07681	116.1	10248.8
			5	-124161	-53999.5		L: Interface 21 PJM-WEST			5130.8	0.0	0.04132		0.04851	5119.7	-903.2
							C:130763 HILSD230	230 130768 WATRC230		219						
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.05805	0.12377	-190.6	-15557.8
			6	-121885	-52966		L: Interface 21 PJM-WEST			5137.5	0.0	0.04215		0.04851	5119.7	-792.8
							C:BUS:WATERCURE_2301		634							
							Open 130768 WATRC230	230 130772 SHRED230	230 1				-0.02068	0.05180	73.0	-6240.8
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.07347	-0.07197	264.1	9035.8
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.18954	0.00000	0.5	0.5
			7	-118791	-51560.8		L: Interface 21 PJM-WEST			5050.1	0.0	0.04251		0.04851	5119.7	-642.7
							C:MULT041		657							
							Open 9 JUNIATA	500 21 SUNBURY	500 1				-0.13385	0.04394	526.9	-4693.3
							Open 21 SUNBURY	500 3084 SUNBURY	230 24				-0.00697	0.01650	-120.9	-2080.7
			8	-117669	-51051		L: Interface 21 PJM-WEST			5137.5	0.0	0.04366		0.04851	5119.7	-588.3
							C:130757 WATRC345	345 130768 WATRC230		213						
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.06737	-0.07197	264.1	8732.4
			9	-113038	-48947.5		L: Interface 21 PJM-WEST			5189.8	0.0	0.04591		0.04851	5119.7	-363.6
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.17843	0.01428	-377.8	-1992.1
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.07359	0.00066	-35.9	-110.9
			10	-112373	-48645.5*		L: Interface 21 PJM-WEST			5182.9	0.0	0.04612		0.04851	5119.7	-331.4
							C:135398 SW345	345 200769 HOMER CY		380						
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.16713	0.01428	-377.8	-1982.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			1756	-76536.8	-32368.7		L: Interface 20 PJM-CENT			3534.1	0.0	0.04617		0.10355	3274.5	-4651.1
							C:126260 BOWLINE1 345 146750 WHAV345		79							
							Open 126260 BOWLINE1 345 146750 WHAV345	345 10					-0.55144	0.10405	-470.6	-8434.6
			1762	-58763.2	-24296		L: Interface 20 PJM-CENT			3475.2	0.0	0.05914		0.10355	3274.5	-2810.6
							C:SIN:301		666							
							Open 126260 BOWLINE1 345 146841 BOWL 20.0 1		NA							
							Open 126260 BOWLINE1 345 146750 WHAV345	345 10					-0.42591	0.10405	-470.6	-6585.2
							Open 126290 LADENTWN 345 146750 WHAV345	345 1					-0.00103	0.09522	-170.9	-5766.1
			1763	-52472.9	-21439		L: Interface 20 PJM-CENT			3233.7	0.0	0.06163		0.10355	3274.5	-2159.2
							C:LKWANA-OXBWL		652							
							Open 417 OXBOW 230 3070 LACKAWNA	230 1					0.33015	-0.12699	-123.7	6540.0
			1764	-50407.2	-20500.7		L: Interface 20 PJM-CENT			3327.1	0.0	0.06600		0.10355	3274.5	-1945.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.28217	-0.07681	116.1	3988.0
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.25854	-0.03203	40.8	1655.2
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.24719	-0.03072	37.4	1586.1
			1765	-42325.9	-16830.2		L: Interface 20 PJM-CENT			3308.8	0.0	0.07817		0.10355	3274.5	-1108.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA	230 1					0.09832	0.00121	-15.5	-66.9
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.24421	-0.07681	116.1	3367.2
							Open 381 TOWANDA 115 200675 E.TWANDA	230 1					0.01929	-0.00624	-52.6	211.7
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.20672	-0.03203	40.8	1396.4
			1766	-42317	-16826.2		L: Interface 20 PJM-CENT			3311.2	0.0	0.07825		0.10355	3274.5	-1107.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.24118	-0.07681	116.1	3366.5
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.21172	-0.03203	40.8	1396.1
			1767	-39597.7	-15591.1		L: Interface 20 PJM-CENT			3303.4	0.0	0.08342		0.10355	3274.5	-825.9
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.19413	-0.07681	116.1	3157.7
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.16981	-0.03072	37.4	1254.0
			1768	-38348.8	-15023.9		L: Interface 20 PJM-CENT			3971.1	0.0	0.10355		0.10355	3274.5	-696.6
							C:GEN:PEACHBTM1		569							
							Remove unit 1 from bus 34 PCHBTM 2 22.0	1059.5 MW dispatch								
			1769	-37854.9	-14799.5		L: Interface 20 PJM-CENT			3920.0	0.0	0.10355		0.10355	3274.5	-645.5
							C:GEN:SALEM1		568							
							Remove unit 1 from bus 36 SALEM-G1 22.0	1117.3 MW dispatch								
			1770	-36632.7	-14244.4*		L: Interface 20 PJM-CENT			3793.4	0.0	0.10355		0.10355	3274.5	-518.9
							C:SIN:2501		678							
							Open 100508 SANDB115 115 100509 SB RCTOR	115 2					-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3 24.0	1276.0 MW dispatch								
			3525	-7164.1	-859.8		L: Interface 47 C-PJMWest			-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755 OAKDL345 345 130757 WATRC345		206							
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.25046	-0.18586	-261.1	1070.4
			3526	-7164.1	-859.8		L: Interface 48 PJMWest-C			482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755 OAKDL345 345 130757 WATRC345		206							
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					0.25046	-0.18586	-261.1	1070.4
			3527	-7164.1	-859.8		L: Interface 60 C2PJM			-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755 OAKDL345 345 130757 WATRC345		206							
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.25046	-0.18586	-261.1	1070.4
			3528	-7164.1	-859.8		L: Interface 61 PJMC2C			482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755 OAKDL345 345 130757 WATRC345		206							
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					0.25046	-0.18586	-261.1	1070.4
			3529	-5962	-313.9		L: Interface 61 PJMC2C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1					0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2					0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1					-0.04989	0.23158	39.8	-1340.9





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3536	-5962	-313.9		L: Interface 60 C2PJMC	Remove unit 1 from bus 147798 IP#3 GEN 22.0	1072.8 MW	dispatch						
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0	1072.8 MW	dispatch							
			3537	-5810.5	-245.1		L: Interface 47 C-PJMWest									
							C:130753 FRASR345	345 130755 OAKDL345	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				-0.10467	-0.28478	-566.1	1088.6
			3538	-5810.5	-245.1		L: Interface 60 C2PJMC									
							C:130753 FRASR345	345 130755 OAKDL345	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				-0.10467	-0.28478	-566.1	1088.6
			3539	-5810.5	-245.1		L: Interface 48 PJMWest-C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753 FRASR345	345 130755 OAKDL345	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.10467	-0.28478	-566.1	1088.6
			3540	-5810.5	-245.1		L: Interface 61 PJMC2C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753 FRASR345	345 130755 OAKDL345	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.10467	-0.28478	-566.1	1088.6
			3541	-5627.1	-161.8		L: Interface 48 PJMWest-C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2				-0.03968	0.23158	-1041.8	-2344.9
			3542	-5627.1	-161.8		L: Interface 47 C-PJMWest									
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2				0.03968	0.23158	-1041.8	-2344.9
			3543	-5627.1	-161.8		L: Interface 60 C2PJMC									
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2				0.03968	0.23158	-1041.8	-2344.9
			3544	-5627.1	-161.8		L: Interface 61 PJMC2C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2				-0.03968	0.23158	-1041.8	-2344.9
			3545	-5586	-143.1		L: Interface 48 PJMWest-C			621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06273	0.00066	-35.9	-39.6
			3546	-5586	-143.1		L: Interface 47 C-PJMWest									
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY	345 1				0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.06273	0.00066	-35.9	-39.6
			3547	-5586	-143.1		L: Interface 61 PJMC2C			621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06273	0.00066	-35.9	-39.6
			3548	-5586	-143.1		L: Interface 60 C2PJMC									
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY	345 1				0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.06273	0.00066	-35.9	-39.6
			3549	-5575.3	-138.2		L: Interface 60 C2PJMC									
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345	345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1138.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3550	-5575.3	-138.2		L: Interface 48 PJMWest-C	Open 126288 IP2 345 345 126651 IND PT 2 22.0 2		586.8	0.0	0.10525	0.03827	0.22576	-1018.5	-2277.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2277.2
			3551	-5575.3	-138.2		L: Interface 47 C-PJMWest			-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.03827	0.22576	-1018.5	-2277.2
			3552	-5575.3	-138.2		L: Interface 61 PJMWest			586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2277.2
			3553	-5549.4	-126.5		L: Interface 48 PJMWest-C			634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1	NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3554	-5549.4	-126.5		L: Interface 60 C2PJM			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1	NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3555	-5549.4	-126.5		L: Interface 47 C-PJMWest			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3556	-5549.4	-126.5		L: Interface 61 PJMC2C			634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-765-New1			777						
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00731		10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3557	-5524.2	-115		L: Interface 47 C-PJWest			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01428	-377.8	-456.7
			3558	-5524.2	-115		L: Interface 60 C2PJMC			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01428	-377.8	-456.7
			3559	-5524.2	-115		L: Interface 61 PJMC2C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01428	-377.8	-456.7
			3560	-5524.2	-115		L: Interface 48 PJWest-C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01428	-377.8	-456.7
			3561	-5517.4	-111.9*		L: Interface 60 C2PJMC			-628.4	0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3562	-5517.4	-111.9*		L: Interface 48 PJWest-C			628.4	0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3563	-5517.4	-111.9*		L: Interface 47 C-PJWest			-628.4	0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3564	-5517.4	-111.9*		L: Interface 61 PJMC2C			628.4	0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3601	-5252.6	8.3		L: Interface 55 PJME-NYEnORE			1498.1	1287.0	0.04020		0.00000	1299.4	1299.4
							C:SER:HC-WC_30&W-F_1711 602									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.35376	-0.11389	-547.8	50.4
							Open 135277 FALCONER 115 200579 WARREN 115 1						-0.13836	0.00066	-35.9	-39.3
			3602	-5252.6	8.3		L: Interface 56 NYE-PJMEEnORE			-1498.1	-1287.0	-0.04020		0.00000	-1299.4	-1299.4
							C:SER:HC-WC_30&W-F_1711 602									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.35376	-0.11389	-547.8	50.4
							Open 135277 FALCONER 115 200579 WARREN 115 1						0.13836	0.00066	-35.9	-39.3
			3635	-5118.8	69.1		L: Interface 55 PJME-NYEnORE			1492.4	1287.0	0.04012		0.00000	1299.4	1299.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.35224	-0.11389	-547.8	35.2
			3636	-5118.8	69.1		L: Interface 56 NYE-PJMENoRE			-1492.4	-1287.0	-0.04012		0.00000	-1299.4	-1299.4
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.35224	-0.11389	-547.8	35.2
			3677	-5022.6	112.8		L: Interface 52 PJMEast-G			239.7	0.0	0.04772		0.00000	0.3	0.3
								C:125001 ROCK TAV 345 126297 RAMAPO	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				0.21456	0.22243	1116.0	-1.2
			3678	-5022.6	112.8		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04772		0.00000	-0.3	-0.3
								C:SIN:4401	684							
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				-0.21456	0.22243	1116.0	-1.2
			3679	-5022.6	112.8		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04772		0.00000	-0.3	-0.3
								C:125001 ROCK TAV 345 126297 RAMAPO	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				-0.21456	0.22243	1116.0	-1.2
			3680	-5022.6	112.8		L: Interface 52 PJMEast-G			239.7	0.0	0.04772		0.00000	0.3	0.3
								C:SIN:4401	684							
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				0.21456	0.22243	1116.0	-1.2
			10225	-4788.7	219.1		L: Interface 55 PJME-NYEnoRE			1475.1	1287.0	0.03929		0.00000	1299.4	1299.4
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				-0.17684	-0.22216	-993.8	70.0
			10226	-4788.7	219.1		L: Interface 56 NYE-PJMENoRE			-1475.1	-1287.0	-0.03929		0.00000	-1299.4	-1299.4
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				0.17684	-0.22216	-993.8	70.0
			10555	-4480.8	358.9		L: Interface 51 G-PJMEast			-154.0	0.0	-0.03438		0.00000	-0.3	-0.3
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				0.15474	-0.22216	-993.8	1.6
			10556	-4480.8	358.9		L: Interface 52 PJMEast-G			154.0	0.0	0.03438		0.00000	0.3	0.3
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				-0.15474	-0.22216	-993.8	1.6
			10565	-4193.6	489.3		L: Interface 55 PJME-NYEnoRE			1487.8	1287.0	0.04789		0.00000	1299.4	1299.4
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.21507	-0.03203	40.8	175.1
			10566	-4193.6	489.3		L: Interface 56 NYE-PJMENoRE			-1487.8	-1287.0	-0.04789		0.00000	-1299.4	-1299.4
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.21507	-0.03203	40.8	175.1
			10579	-3912.4	617.1		L: Interface 51 G-PJMEast			-124.9	0.0	-0.03191		0.00000	-0.3	-0.3
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.14830	-0.03203	40.8	166.1
			10580	-3912.4	617.1		L: Interface 52 PJMEast-G			124.9	0.0	0.03191		0.00000	0.3	0.3
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.14830	-0.03203	40.8	166.1
			10593	-3704.4	711.5		L: Interface 63 PJMW2C			513.2	0.0	0.13854		0.25346	353.6	-585.3
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				0.85100	-0.03072	37.4	151.2
			10594	-3704.4	711.5		L: Interface 62 C2PJMW			-513.2	0.0	-0.13854		-0.25346	-353.6	585.3
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230 230 200675 E.TWANDA	230 1				-0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115 115 200680 LAUREL L	115 1				-0.85100	-0.03072	37.4	151.2
			10599	-3417.6	841.8		L: Interface 26 ONTARIO-MICH			758.6	0.0	0.22198		0.23984	733.8	-85.9
								C:ETHS/NWES/LLGD1	649							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.12796	-0.07681	116.1	378.6
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.13032	-0.03203	40.8	150.3
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.12541	-0.03072	37.4	142.4
			10600	-3289.2	900.1		L: Interface 26 ONTARIO-MICH			750.6	0.0	0.22819		0.23984	733.8	-55.1
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10716	-0.07681	116.1	368.7
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10657	-0.03203	40.8	146.2
			10601	-3288.8	900.3		L: Interface 26 ONTARIO-MICH			750.4	0.0	0.22818		0.23984	733.8	-55.0
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						0.00016	0.00121	-15.5	-19.5
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10740	-0.07681	116.1	368.7
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						0.00252	-0.00624	-52.6	-32.1
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10591	-0.03203	40.8	146.2
			10602	-3235.9	924.3		L: Interface 26 ONTARIO-MICH			746.7	0.0	0.23076		0.23984	733.8	-42.3
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.08358	-0.07681	116.1	364.6
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.08640	-0.03072	37.4	136.8
			10603	-3230.3	926.9		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.23538		0.23984	733.8	-41.0
							C:W44LCL		643							
							Open 160062 LONGWOOD 220 160074 COWALJ44 220 1						-0.16058	0.02276	189.0	115.5
							Open 160074 COWALJ44 220 160134 BUCHJW44 220 1						0.16305	-0.00491	334.6	350.4
							Open 160054 BUCHANAN 220 160134 BUCHJW44 220 1						-0.00035	0.00491	-256.3	-272.2
							Open 160055 CHATHAM 220 160074 COWALJ44 220 1						0.71978	0.00000	3.1	3.1
			10604	-3230.1	927		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.23539		0.23984	733.8	-40.9
							C:W45LCL		644							
							Open 160062 LONGWOOD 220 160075 COWALJ45 220 1						-0.16052	0.02274	189.0	115.6
							Open 160075 COWALJ45 220 160135 BUCHJW45 220 1						0.16299	-0.00490	334.4	350.3
							Open 160054 BUCHANAN 220 160135 BUCHJW45 220 1						-0.00035	0.00490	-262.6	-278.4
							Open 160055 CHATHAM 220 160075 COWALJ45 220 1						0.71974	0.00000	3.1	3.1
			10605	-3215.2	933.7		L: Interface 26 ONTARIO-MICH			770.6	0.0	0.23968		0.23984	733.8	-37.3
							C:131128 LAPEER 345 136153 LAFAYTTE 392									
							Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						-0.05454	0.00296	-675.2	-684.8
			10606	-3200.3	940.5		L: Interface 26 ONTARIO-MICH			719.0	0.0	0.22467		0.23984	733.8	-33.8
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW 230 3070 LACKAWNA 230 1						0.11942	-0.12699	-123.7	282.8
			10607	-3197.5	941.8		L: Interface 26 ONTARIO-MICH			770.0	0.0	0.24082		0.23984	733.8	-33.1
							C:130755 OAKDL345 345 131128 LAPEER 209									
							Open 130755 OAKDL345 345 131128 LAPEER 345 1						-0.06047	-0.01619	-599.0	-547.2
			10608	-3178.3	950.5*		L: Interface 26 ONTARIO-MICH			746.8	0.0	0.23497		0.23984	733.8	-28.5
							C:KEY-SHELOCTA/BLAIRSVL-SOCIAL1		651							
							Open 505 SHELOCTA 230 521 KEYSTONE 230 1						0.08780	-0.04571	48.1	193.3
							Open 473 BLAIRSVL 138 235253 OLSOCIAL 138 1						0.08827	-0.00970	99.7	130.6
			12298	-2956.3	1051.3		L: Interface 56 NYE-PJMENoRE			-1478.3	-1287.0	-0.06473		0.00000	-1299.4	-1299.4
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.44203	-0.11389	-547.8	-211.1
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.19985	-0.07197	264.1	476.8
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.46005	0.00000	22.7	22.7
			12299	-2956.3	1051.3		L: Interface 55 PJME-NYENoRE			1478.3	1287.0	0.06473		0.00000	1299.4	1299.4
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.44203	-0.11389	-547.8	-211.1
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.19985	-0.07197	264.1	476.8
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.46005	0.00000	22.7	22.7
			12339	-2729.4	1154.4		L: Interface 51 G-PJMEast			-118.6	0.0	-0.04345		0.00000	-0.3	-0.3
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.29477	-0.11389	-547.8	-237.0
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.13719	-0.07197	264.1	460.5
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.30599	0.00000	22.7	22.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12340	-2729.4	1154.4		L: Interface 52 PJMEast-G			118.6	0.0	0.04345		0.00000	0.3	0.3
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.29477	-0.11389	-547.8	-237.0
							Open 130757 WATRC345 345 130768 WATRC230	230 1					-0.13719	-0.07197	264.1	460.5
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.30599	0.00000	22.7	22.7
			12350	-2537.3	1241.6		L: Interface 62 C2PJM			-458.4	0.0	-0.18068		-0.25346	-353.6	289.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.66732	-0.07681	116.1	310.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.67169	-0.03203	40.8	122.1
			12351	-2537.3	1241.6		L: Interface 63 PJMW2C			458.4	0.0	0.18068		0.25346	353.6	-289.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.66732	-0.07681	116.1	310.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.67169	-0.03203	40.8	122.1
			12352	-2533.4	1243.4		L: Interface 62 C2PJM			-457.5	0.0	-0.18060		-0.25346	-353.6	288.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA	230 1					-0.00111	0.00121	-15.5	-18.6
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.66891	-0.07681	116.1	310.7
							Open 381 TOWANDA 115 200675 E.TWANDA	230 1					-0.01713	-0.00624	-52.6	-36.8
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.66726	-0.03203	40.8	122.0
			12353	-2533.4	1243.4		L: Interface 63 PJMW2C			457.5	0.0	0.18060		0.25346	353.6	-288.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA	230 1					0.00111	0.00121	-15.5	-18.6
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.66891	-0.07681	116.1	310.7
							Open 381 TOWANDA 115 200675 E.TWANDA	230 1					0.01713	-0.00624	-52.6	-36.8
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.66726	-0.03203	40.8	122.0
			12364	-2244.8	1374.5		L: Interface 63 PJMW2C			437.0	0.0	0.19466		0.25346	353.6	-215.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.52482	-0.07681	116.1	288.5
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.60169	-0.03072	37.4	106.3
			12365	-2244.8	1374.5		L: Interface 62 C2PJM			-437.0	0.0	-0.19466		-0.25346	-353.6	215.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.52482	-0.07681	116.1	288.5
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.60169	-0.03072	37.4	106.3
			12370	-2149.4	1417.8		L: Interface 55 PJME-NYEnoRE			1451.8	1287.0	0.07669		0.00000	1299.4	1299.4
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.26930	-0.28478	-566.1	46.0
			12371	-2149.4	1417.8		L: Interface 56 NYE-PJMENoRE			-1451.8	-1287.0	-0.07669		0.00000	-1299.4	-1299.4
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.26930	-0.28478	-566.1	46.0
			12374	-2070.6	1453.6		L: Interface 63 PJMW2C			524.8	0.0	0.25346		0.25346	353.6	-171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
			12375	-2070.6	1453.6		L: Interface 62 C2PJM			-524.8	0.0	-0.25346		-0.25346	-353.6	171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
			12376	-2063.5	1456.8		L: Interface 62 C2PJM			-524.2	0.0	-0.25406		-0.25346	-353.6	169.4
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765	765 1		NA						
							Open 147828 MASS 765 765 180819 CHA-NY	765 1		NA						
							Open 147827 MARCY765 765 147833 MARCY T1	345 1					-0.04110	0.00782	624.3	608.1
							Open 147827 MARCY765 765 147833 MARCY T1	345 2					-0.04110	0.00680	543.3	529.3
							Open 156 MCV765SW 0.0 147827 MARCY765	765 1		NA						
							Open 147838 MASS230B 230 147839 MOSES E	230 1					0.00000	-0.00731	10.7	25.8
							Open 147828 MASS 765 765 147838 MASS230B	230 1		NA						
							Open 147837 MASS230A 230 147839 MOSES E	230 1					0.11489	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A	230 1		NA						
							Open 158 MS765SW2 0.0 147828 MASS 765	765 1		NA						





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
			12391	-1844.4	1556.3	*	L: Interface 62 C2PJM			-467.5	0.0	-0.25346		-0.25346	-353.6	113.9		
							C:GEN:SEABROOK1		574									
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch								
			12420	-1660.7	1639.8		L: Interface 55 PJME-NYEnORE			1367.4	1287.0	0.04842		0.00000	1299.4	1299.4		
							C:130755 OAKDL345	345	130757 WATRC345		206							
							Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.26051	-0.18586	-261.1	47.5		
			12421	-1660.7	1639.8		L: Interface 56 NYE-PJMEEnORE			-1367.4	-1287.0	-0.04842		0.00000	-1299.4	-1299.4		
							C:130755 OAKDL345	345	130757 WATRC345		206							
							Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.26051	-0.18586	-261.1	47.5		
			12495	-1482.1	1720.9		L: Interface 40 ONT-Zoned			46.4	0.0	0.03133		0.00000	-0.6	-0.6		
							C:147834 NIAG 345	345	149000 ROCH 345		226							
							Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.11251	0.27848	418.2	5.4		
			12496	-1482.1	1720.9		L: Interface 39 ZoneD-ONT			-46.4	0.0	-0.03133		0.00000	0.6	0.6		
							C:147834 NIAG 345	345	149000 ROCH 345		226							
							Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.11251	0.27848	418.2	5.4		
			12697	-1412.6	1752.5		L: Interface 52 PJMEast-G			46.4	0.0	0.03283		0.00000	0.3	0.3		
							C:130755 OAKDL345	345	130757 WATRC345		206							
							Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.17666	-0.18586	-261.1	1.4		
			12698	-1412.6	1752.5		L: Interface 51 G-PJMEast			-46.4	0.0	-0.03283		0.00000	-0.3	-0.3		
							C:130755 OAKDL345	345	130757 WATRC345		206							
							Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.17666	-0.18586	-261.1	1.4		
			15907	-1152.3	1870.7		L: Interface 56 NYE-PJMEEnORE			-1366.9	-1287.0	-0.06935		0.00000	-1299.4	-1299.4		
							C:LKWANA-OXBW1			652								
							Open 417 OXBOW	230	3070 LACKAWNA	230	1		0.54606	-0.12699	-123.7	22.7		
			15908	-1152.3	1870.7		L: Interface 55 PJME-NYEnORE			1366.9	1287.0	0.06935		0.00000	1299.4	1299.4		
							C:LKWANA-OXBW1			652								
							Open 417 OXBOW	230	3070 LACKAWNA	230	1		-0.54606	-0.12699	-123.7	22.7		
			15911	-978.9	1949.4		L: Interface 51 G-PJMEast			-47.3	0.0	-0.04833		0.00000	-0.3	-0.3		
							C:LKWANA-OXBW1			652								
							Open 417 OXBOW	230	3070 LACKAWNA	230	1		0.38055	-0.12699	-123.7	0.7		
			15912	-978.9	1949.4		L: Interface 52 PJMEast-G			47.3	0.0	0.04833		0.00000	0.3	0.3		
							C:LKWANA-OXBW1			652								
							Open 417 OXBOW	230	3070 LACKAWNA	230	1		-0.38055	-0.12699	-123.7	0.7		
			15913	-406.5	2209.4		L:126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1829.3	-1725.0	-0.25658	-0.18071	-1281.5	-1208.1
							C:126294 PLTVLLEY	345	137455 ATHENS		121							
							Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.44120	-0.17197	-1241.5	-1171.6		
			15914	-265.7	2273.4		L:126294 PLTVLLEY	345	137455 ATHENS	345	1		-1791.3	-1725.0	-0.24949	-0.17197	-1241.5	-1195.8
							C:126294 PLTVLLEY	345	137451 LEEDS 3		120							
							Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		0.42902	-0.18071	-1281.5	-1233.5		
			15915	1.4	2394.7		L:146758 CHESTER	138	146771 SHOEM138	138	1		-316.9	-317.0	-0.06243	-0.03422	-175.4	-175.4
							C:SIN:4401			684								
							Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.12684	0.22243	1116.0	1116.3		
			15916	1.4	2394.7		L:146758 CHESTER	138	146771 SHOEM138	138	1		-316.9	-317.0	-0.06243	-0.03422	-175.4	-175.4
							C:125001 ROCK TAV	345	126297 RAMAPO		7							
							Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.12684	0.22243	1116.0	1116.3		
			NA	96.8	2438	R	L:125021 DC CBLTP	115	125041 N.CHELSE	115	1		319.8	316.0	-0.03913	-0.02060	168.6	166.6
							C:125015 AC CBLTP	115	125041 N.CHELSE		16							
							Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1		0.93208	-0.01988	162.2	160.3		
			NA	104.6	2441.6	R	L:125021 DC CBLTP	115	125041 N.CHELSE	115	1		320.1	316.0	-0.03913	-0.02060	168.6	166.4
							C:125015 AC CBLTP	115	125020 DANSKAMA		15							
							Open 125015 AC CBLTP	115	125020 DANSKAMA	115	1		-0.93208	0.01988	-162.5	-160.5		
			15917	273.7	2518.4		L:126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1281.5	-1331.0	-0.18071			
							Base Case											
			NA	367.1	2560.8	R	L: Interface 49 C-PJMCentral			61.2	0.0	-0.16666		-0.13956	194.3	143.0		
							C:SER:HC-WC_30&W-F_1711			602								
							Open 130757 WATRC345	345	200769 HOMER CY	345	1		0.23835	-0.11389	-547.8	-589.6		
							Open 135277 FALCONER	115	200579 WARREN	115	1		0.06948	0.00066	-35.9	-35.6		

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15920	367.1	2560.8		L: Interface 49 C-PJMCentral			61.2	0.0	-0.16666		-0.13956	194.3	143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.06948	0.00066	-35.9	-35.6
			15921	367.1	2560.8		L: Interface 50 PJMCentral-C			-61.2	0.0	0.16666		0.13956	-194.3	-143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06948	0.00066	-35.9	-35.6
			NA	367.1	2560.8	R	L: Interface 50 PJMCentral-C			-61.2	0.0	0.16666		0.13956	-194.3	-143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06948	0.00066	-35.9	-35.6
			NA	369.5	2561.9	R	L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		-0.13956	194.3	142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.33373	-0.03203	40.8	29.0
			NA	369.5	2561.9	R	L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.33373	-0.03203	40.8	29.0
			15924	369.5	2561.9		L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		-0.13956	194.3	142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.33373	-0.03203	40.8	29.0
			15925	369.5	2561.9		L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.33373	-0.03203	40.8	29.0
			NA	384.7	2568.8	R	L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23759	-0.11389	-547.8	-591.6
			15928	384.7	2568.8		L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23759	-0.11389	-547.8	-591.6
			15929	384.7	2568.8		L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23759	-0.11389	-547.8	-591.6
			NA	384.7	2568.8	R	L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23759	-0.11389	-547.8	-591.6
			15930	394	2573		L: Interface 14 Leeds-PV			2523.0	2662.0	0.35267				
							Base Case									
			NA	451.6	2599.2	R	L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.14879	0.00000	22.7	22.7
			15933	451.6	2599.2		L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.14879	0.00000	22.7	22.7
			NA	451.6	2599.2	R	L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.14879	0.00000	22.7	22.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15934	451.6	2599.2		L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345 345 130768 WATRC230	230 1					0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.14879	0.00000	22.7	22.7
			15935	520.5	2630.5		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1241.5	-1331.0	-0.17197				
							Base Case									
			15936	569.5	2652.7		L:146758 CHESTER 138 146773 SGRLF138 138 1			281.4	317.0	0.06243		0.03422	139.9	159.4
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.12684	0.22243	1116.0	1242.7
			15937	569.5	2652.7		L:146758 CHESTER 138 146773 SGRLF138 138 1			281.4	317.0	0.06243		0.03422	139.9	159.4
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.12684	0.22243	1116.0	1242.7
			15938	635.8	2682.8		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1578.2	-1725.0	-0.23087		-0.18071	-1281.5	-1396.4
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					0.32994	-0.15203	-899.1	-995.8
		NA		742.1	2731.1	R	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
		NA		742.1	2731.1	R	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
			15939	742.1	2731.1	*	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
			15940	742.1	2731.1	*	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0	1198.7 MW dispatch								
			15941	772.3	2744.8		L: Interface 14 Leeds-PV			3102.0	3450.0	0.45057		0.35267	2523.0	2795.4
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					-0.64393	-0.15203	-899.1	-1016.6
			15944	893.7	2800		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18921	-0.01700	1505.3	1490.1
			15945	893.7	2800		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18921	-0.01700	1505.3	1490.1
			15946	900	2802.8		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					-0.16092	0.22243	1116.0	1316.2
			15947	900	2802.8		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					-0.16092	0.22243	1116.0	1316.2
			15952	915.8	2810		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1523.8	-1725.0	-0.21970		-0.17197	-1241.5	-1399.0
							C:125000 HURLEY 3 345 137451 LEEDS 3		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					0.31399	-0.15203	-899.1	-1038.4
			15953	931.5	2817.1		L:146758 CHESTER 138 146771 SHOEM138 138 1			-260.5	-317.0	-0.06069		-0.03422	-175.4	-207.2
							C:125001 ROCK TAV 345 146754 MDTN TAP		9							
							Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1					0.19956	-0.13269	-426.4	-550.0
			15958	959.7	2829.9		L:130750 COOPC345 345 130753 FRASR345 345 1			-993.8	-1207.0	-0.22216				
							Base Case									
			15961	982.5	2840.3		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1472.9	-1725.0	-0.25658		-0.18071	-1281.5	-1459.1
							C:137451 LEEDS 3 345 137455 ATHENS		6							
							Open 137451 LEEDS 3 345 137455 ATHENS	345 1					-0.44120	0.17197	433.7	602.7
			15976	1071.3	2880.6		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					0.36927	-0.01700	1505.3	1487.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15977	1071.3	2880.6		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:125002 ROSETON 345 126281 FISHKILL		10							
			15982	1106.3	2896.5*		L: Interface 56 NYE-PJMENoRE		345 1	-1242.4	-1287.0	-0.04030	0.36927	-0.01700	1505.3	1487.1
							C:ETHS/LLGD1		650					0.00000	-1299.4	-1299.4
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.35147	-0.07681	116.1	31.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.43285	-0.03072	37.4	3.4
			15983	1106.3	2896.5*		L: Interface 55 PJME-NYENoRE			1242.4	1287.0	0.04030		0.00000	1299.4	1299.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.35147	-0.07681	116.1	31.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.43285	-0.03072	37.4	3.4
			15998	1134.2	2909.2		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1474.9	-1725.0	-0.22051		-0.18071	-1281.5	-1486.5
							C:125000 HURLEY 3 345 125002 ROSETON		1							
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1					-0.29336	0.13569	659.1	813.0
			16023	1257.9	2965.4		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18006	-0.01700	1505.3	1484.0
			16024	1257.9	2965.4		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18006	-0.01700	1505.3	1484.0
			16033	1277.1	2974.1		L: Interface 14 Leeds-PV			2900.4	3450.0	0.43036		0.35267	2523.0	2973.4
							C:125000 HURLEY 3 345 125002 ROSETON		1							
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1					0.57252	0.13569	659.1	832.4
			16072	1330	2998.1		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09071		0.05492	445.8	518.8
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.16092	0.22243	1116.0	1411.8
			16073	1330	2998.1		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09071		0.05492	445.8	518.8
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.16092	0.22243	1116.0	1411.8
			16176	1364.1	3013.6		L:137451 LEEDS 3 345 137452 N.SCOT77 345 1			-1351.3	-1724.0	-0.27326		-0.17495	-865.1	-1103.7
							C:137451 LEEDS 3 345 137453 N.SCOT99		5							
							Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2					0.56507	-0.17398	-860.4	-1097.8
			16241	1376.2	3019.1		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1430.5	-1725.0	-0.21400		-0.18071	-1281.5	-1530.2
							C:130750 COOPC345 345 130753 FRASR345		192							
							Open 130750 COOPC345 345 130753 FRASR345	345 1					0.14988	-0.22216	-993.8	-1299.5
			16256	1378.4	3020.1		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-1348.2	-1724.0	-0.27263		-0.17398	-860.4	-1100.2
							C:137451 LEEDS 3 345 137452 N.SCOT77		4							
							Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1					0.56387	-0.17495	-865.1	-1106.2
			16321	1382.5	3022		L: Interface 51 G-PJMEast			74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.41611	-0.03072	37.4	-5.1
			16322	1382.5	3022		L: Interface 52 PJMEast-G			-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.41611	-0.03072	37.4	-5.1
			NA	1382.5	3022	R	L: Interface 51 G-PJMEast			74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.41611	-0.03072	37.4	-5.1
			NA	1382.5	3022	R	L: Interface 52 PJMEast-G			-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.38829	-0.03203	40.8	-3.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19488	1678.2	3156.3		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1383.2	-1725.0	-0.20365		-0.17197	-1241.5	-1530.1
							C:130750	COOPC345 345 130753 FRASR345	192							
							Open	130750 COOPC345 345 130753 FRASR345	345 1				0.14263	-0.22216	-993.8	-1366.6
			19493	1728.9	3179.3		L:130750	COOPC345 345 147833 MARCY T1 345 1		-1007.4	-1345.0	-0.19527		-0.13551	-740.0	-974.3
							C:130750	COOPC345 345 130753 FRASR345	192							
							Open	130750 COOPC345 345 130753 FRASR345	345 1				0.26903	-0.22216	-993.8	-1377.9
			19494	1730.7	3180.1		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-553.8	-707.0	-0.08853		-0.05492	-445.8	-540.8
							C:125001	ROCK TAV 345 146754 MDTN TAP	9							
							Open	125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.25331	-0.13269	-426.4	-656.1
			19495	1746.7	3187.4		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1290.2	-1793.0	-0.28783		-0.17006	-742.3	-1039.3
							C:130750	COOPC345 345 146754 MDTN TAP	195							
							Open	130750 COOPC345 345 146754 MDTN TAP	345 1				-0.62777	0.18761	872.9	1200.6
			19498	1754.7	3191		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		98.8	173.0	0.04231		0.02843	77.9	127.8
							C:147834	NIAG 345 345 149000 ROCH 345	226							
							Open	147834 NIAG 345 345 149000 ROCH 345	345 1				0.04986	0.27848	418.2	906.8
			19499	1775.3	3200.4		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		44.9	143.0	0.05524		0.03549	17.2	80.2
							C:130755	OAKDL345 345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.18586	-261.1	-591.1
			19500	1809.5	3215.9		L:130817	JENN 115 115 130851 SIDNT115 115 1		51.5	120.0	0.03787		0.02109	18.1	56.3
							C:130753	FRASR345 345 130755 OAKDL345	200							
							Open	130753 FRASR345 345 130755 OAKDL345	345 1				-0.05892	-0.28478	-566.1	-1081.4
			19501	1810.5	3216.4		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-43.0	-143.0	-0.05524		-0.03549	-15.2	-79.5
							C:130755	OAKDL345 345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.10626	-0.18586	-261.1	-597.6
			NA	1813.2	3217.6	R	L: Interface	23 QFW		893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1		776							
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.00503	-288.3	-297.4
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.01007	-577.4	-595.7
			19502	1813.2	3217.6		L: Interface	23 QFW		893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1		776							
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.00503	-288.3	-297.4
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.01007	-577.4	-595.7
			19503	1819	3220.3		L:130757	WATRC345 345 200769 HOMER CY 345 1		-547.8	-755.0	-0.11389				
							Base Case									
			19504	1819	3220.3		L: Interface	47 C-PJMWest		-547.8	-755.0	-0.11389				
							Base Case									
			19505	1819	3220.3		L: Interface	48 PJMWest-C		547.8	755.0	0.11389				
							Base Case									
			19506	1819	3220.3		L: Interface	60 C2PJMC		-547.8	-755.0	-0.11389				
							Base Case									
			19507	1819	3220.3		L: Interface	61 PJMC2C		547.8	755.0	0.11389				
							Base Case									
			19512	1850.1	3234.4		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		92.6	159.0	0.03591		0.02407	74.8	119.3
							C:147834	NIAG 345 345 149000 ROCH 345	226							
							Open	147834 NIAG 345 345 149000 ROCH 345	345 1				0.04252	0.27848	418.2	933.4
			NA	1862.3	3239.9	R	L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			19513	1862.3	3239.9		L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			19514	1866	3241.6		L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-765-New1		777							
							Open	147827 MARCY765 765 147828 MASS 765 765 1	NA							
							Open	147828 MASS 765 765 180819 CHA-NY 765 1	NA							
							Open	147827 MARCY765 765 147833 MARCY T1 345 1					-0.25140	0.00782	624.3	638.9
							Open	147827 MARCY765 765 147833 MARCY T1 345 2					-0.25140	0.00680	543.3	556.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00731	10.7	-2.9
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
		NA	1866		3241.6	R	L: Interface 23 QFW			919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.25140	0.00782	624.3	638.9
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.25140	0.00680	543.3	556.0
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	-2.9
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.09628	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			19515	1868.3	3242.6		L:125001 ROCK TAV 345 130750 COOPC345 345 2			-1261.0	-1793.0	-0.28477		-0.17006	-742.3	-1060.0
							C:SER:CMT34&MTR341		594							
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.55571	0.18761	872.9	1223.4
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.07882	-0.13269	-426.4	-674.3
		19516	1902.5	3258.2		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2				-1353.5	-1725.0	-0.19525		-0.18071	-1281.5	-1625.3
							C:SER:CMT34&MTR341		594							
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.09359	0.18761	872.9	1229.8
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						-0.02274	-0.13269	-426.4	-678.9
		19517	1912.8	3262.8		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2				-1354.0	-1725.0	-0.19397		-0.18071	-1281.5	-1627.2
							C:130750 COOPC345 345 147833 MARCY T1 196									
							Open 130750 COOPC345 345 147833 MARCY T1 345 1						0.09788	-0.13551	-740.0	-999.2
		19520	1924.2	3268		L: Interface 23 QFW				941.0	0.0	-0.48904		-0.48904	1095.9	154.9
							C:GEN:GINNAL		563							
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch									
		NA	1924.2	3268	R	L: Interface 23 QFW				941.0	0.0	-0.48904		-0.48904	1095.9	154.9
							C:GEN:GINNAL		563							
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch									
		19521	1940.2	3275.3		L:135872 SOUR-111 115 135873 SWDN-111 115 1				89.3	159.0	0.03591		0.02407	71.5	118.2
							C:147834 NIAG 345 345 149000 ROCH 345 226									
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.04252	0.27848	418.2	958.5
		19522	1954.6	3281.8	*	L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2				-1345.1	-1725.0	-0.19436		-0.18071	-1281.5	-1634.8
							C:130750 COOPC345 345 146754 MDTN TAP 195									
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.07280	0.18761	872.9	1239.6
		19523	1977.2	3292.1		L: Interface 23 QFW				966.9	0.0	-0.48904		-0.48904	1095.9	129.0
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
		NA	1977.2	3292.1	R	L: Interface 23 QFW				966.9	0.0	-0.48904		-0.48904	1095.9	129.0
							C:GEN:SEAB&OMS1		576							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00003	0.00000	-0.1	-0.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Remove unit 1 from bus 102869 SBRK G1 25.0	1318.0 MW	dispatch						
			19528	1988.6	3297.3		L:130819	KATELL115 115 130838 OAKDL115 115 1		-121.4	-192.0	-0.03551		-0.01769	-86.0	-121.1
								C:130753 FRASR345 345 130755 OAKDL345	200				0.06258	-0.28478	-566.1	-1132.4
			19529	1993.1	3299.3		L:130753	Open 130753 FRASR345 345 130755 OAKDL345	345 1			-0.30993		-0.28478	-566.1	-1133.7
								C:130753 FRASR345 345 137200 EDIC	202							
								Open 130753 FRASR345 345 137200 EDIC	345 1				0.27552	-0.09129	-712.0	-893.9
			19533	2016.6	3310		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		99.5	173.0	0.03645		0.02843	77.9	135.2
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.04136	0.19408	521.8	913.1
			NA	2023.1	3312.9	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.0	240.0	-0.03903		-0.01988	162.2	122.0
								C:125021 DC CBLTP 115 125041 N.CHELSE	29							
								Open 125021 DC CBLTP 115 125041 N.CHELSE	115 1				0.92978	-0.02060	168.6	126.9
			NA	2028.7	3315.5	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.2	240.0	-0.03903		-0.01988	162.2	121.9
								C:125020 DANSKAMA 115 125021 DC CBLTP	25							
								Open 125020 DANSKAMA 115 125021 DC CBLTP	115 1				0.92978	-0.02060	168.8	127.0
			19544	2061.2	3330.2		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.24721		-0.17398	-860.4	-1219.0
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				0.60778	-0.04334	-242.4	-331.7
								Open 137452 N.SCOT77 345 137516 N.SCOT1	115 1				0.40442	0.00032	113.3	114.0
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.33527	0.17278	820.4	1176.6
								Open 137450 ALPS345 345 137452 N.SCOT77	345 1				-0.26700	-0.04086	-84.4	-168.7
								Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1				0.20564	0.00000	0.0	0.0
			19545	2063.9	3331.5		L: Interface	14 Leeds-PV		2663.5	3450.0	0.38105		0.35267	2523.0	3250.9
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				0.18265	0.18761	872.9	1260.1
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.04437	-0.13269	-426.4	-700.3
			19549	2075.3	3336.6		L: Interface	14 Leeds-PV		2664.4	3450.0	0.37856		0.35267	2523.0	3254.9
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				-0.19102	-0.13551	-740.0	-1021.2
			19550	2082.3	3339.8		L:130757	WATRC345 345 130768 WATRC230 230 1		459.8	600.0	0.06734		-0.07197	264.1	114.2
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.74954	-0.18586	-261.1	-648.1
			19551	2084.9	3341		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-83.3	-173.0	-0.04302		-0.02891	-62.1	-122.4
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.05070	0.27848	418.2	998.8
			19556	2113.3	3353.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1076.8	-1703.0	-0.29630		-0.22216	-993.8	-1463.3
								C:130753 FRASR345 345 147831 GILB 345	203							
								Open 130753 FRASR345 345 147831 GILB 345	345 1				-0.39407	0.18814	210.7	608.3
			19557	2116.4	3355.3		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		445.8	562.0	0.05492				
								Base Case								
			19558	2116.8	3355.5		L: Interface	14 Leeds-PV		2647.1	3450.0	0.37933		0.35267	2523.0	3269.6
								C:130750 COOPC345 345 146754 MDTN TAP	195							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				0.14209	0.18761	872.9	1270.0
			NA	2125.7	3359.6	R	L: Interface	54 NYE-PJME		-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				0.60931	0.23158	-1041.8	-549.5
			NA	2125.7	3359.6	R	L: Interface	53 PJME-NYE		1087.0	787.0	-0.14111		0.00000	452.2	452.2
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1				0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2				-0.60931	0.23158	-1041.8	-549.5
			NA	2126.8	3360	R	L: Interface	53 PJME-NYE		1085.6	787.0	-0.14041		0.00000	452.2	452.2
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 2				-0.62193	0.22576	-1018.5	-538.3
			NA	2126.8	3360	R	L: Interface	54 NYE-PJME		-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 2				0.62193	0.22576	-1018.5	-538.3
			19566	2128.9	3361		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		93.2	159.0	0.03092		0.02407	74.8	126.0
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03527	0.19408	521.8	934.9
			19573	2139.1	3365.6		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		103.6	180.0	0.03571		0.02393	85.9	137.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04231	0.27848	418.2	1013.9
			19585	2171.2	3380.2		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		553.8	746.0	0.08853		0.05492	445.8	565.0
								C:125001 ROCK TAV 345 146754 MDTN TAP	9							
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				-0.25331	-0.13269	-426.4	-714.5
			19586	2171.9	3380.5		L: Interface	14 Leeds-PV		2627.6	3450.0	0.37867		0.35267	2523.0	3289.0
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN 345 103117 CTNY398	345 1				0.33670	0.07721	310.6	478.3
								Open 103117 CTNY398 345 126294 PLTVLLEY	345 1				-0.23705	0.00000	0.2	0.2
			19587	2172	3380.6	*	L: Interface	14 Leeds-PV		2627.5	3450.0	0.37867		0.35267	2523.0	3289.0
								C:103117 CTNY398 345 126294 PLTVLLEY	362							
								Open 103117 CTNY398 345 126294 PLTVLLEY	345 1				0.33670	0.07721	310.4	478.1
			19607	2205.9	3396		L:135850	SOUR-114 115 135861 MORTIMER 115 1		70.5	153.0	0.03738		0.02506	52.0	107.3
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04425	0.27848	418.2	1032.5
			19690	2233.5	3408.5		L:135872	SOUR-111 115 135873 SWDN-111 115 1		89.9	159.0	0.03092		0.02407	71.5	125.3
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03527	0.19408	521.8	955.2
			19691	2233.5	3408.5		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.0	-1725.0	-0.18580		-0.17197	-1241.5	-1625.6
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.08906	0.18761	872.9	1291.9
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				-0.02164	-0.13269	-426.4	-722.8
			21081	2246	3414.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.4	-1725.0	-0.18459		-0.17197	-1241.5	-1627.7
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				0.09314	-0.13551	-740.0	-1044.4
			21170	2250.5	3416.2		L:130764	MEYER230 230 131122 WTHRS230 230 1		-242.2	-430.0	-0.08347				
								Base Case								
			21209	2254.7	3418.2		L:130836	N.WAV115 115 131018 LOUNSI15 115 1		48.5	173.0	0.05524		0.03549	20.7	100.7
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.18586	-261.1	-680.2
			21251	2259.1	3420.1		L:130750	COOPC345 345 130753 FRASR345 345 1		-1143.6	-1703.0	-0.24764		-0.22216	-993.8	-1495.7
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345	345 1				0.16356	-0.15578	-915.6	-1267.5
			21260	2262.2	3421.5		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		97.8	180.0	0.03633		0.02435	79.8	134.9
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04302	0.27848	418.2	1048.2
			21290	2276.5	3428		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1				-0.00023	-0.00033	74.9	74.2
			21291	2276.5	3428		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1				-0.00016	-0.00021	88.8	88.3
			21304	2287.1	3432.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1302.0	-1725.0	-0.18496		-0.17197	-1241.5	-1634.8
								C:130750 COOPC345 345 146754 MDTN TAP	195							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.06928	0.18761	872.9	1301.9
			21305	2287.5	3433		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35766				

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21306	2287.9	3433.2		L:130815	Base Case HINMN115 115 135452 LOCKPORT 115 1		191.4	280.0	0.03872		0.02477	170.5	227.1
								C:147834 NIAG 345 345 149000 ROCH 345	226				0.05011	0.27848	418.2	1055.3
			21327	2317.9	3446.9		L:146758	Open 147834 NIAG 345 345 149000 ROCH 345 345 1 CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:125002 ROSETON 345 126281 FISHKILL	10							
			21328	2317.9	3446.9		L:146758	Open 125002 ROSETON 345 126281 FISHKILL 345 1 CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349	-0.04251	-0.01700	1505.3	1465.9
								C:SIN:4301	683					-0.03422	-175.4	-254.7
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.04251	-0.01700	1505.3	1465.9
			21331	2322.8	3449.1		L:130794	DELHI115 115 130851 SIDNT115 115 1		-33.5	-120.0	-0.03724		-0.02058	-0.4	-48.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.05851	-0.28478	-566.1	-1227.6
			21336	2327.8	3451.3		L:130815	HINMN115 115 131611 HARS115 115 1		-218.3	-306.0	-0.03766		-0.02411	-198.0	-254.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04868	0.27848	418.2	1066.4
			21349	2342.6	3458.1	*	L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1292.5	-1725.0	-0.18464		-0.17197	-1241.5	-1644.3
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					-0.16418	0.07721	310.6	491.5
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					0.11559	0.00000	0.2	0.2
			21356	2347.9	3460.5		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1185.3	-1724.0	-0.22943		-0.17495	-865.1	-1275.8
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34978	-0.15578	-915.6	-1281.4
			21381	2376.2	3473.3		L:130770	SHLDN230 230 131122 WTHRS230 230 1		231.9	430.0	0.08335				
								Base Case								
			21383	2377.5	3473.9		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1180.8	-1724.0	-0.22849		-0.17398	-860.4	-1274.1
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34988	-0.15578	-915.6	-1286.0
			21388	2379.4	3474.8		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.1	-540.0	-0.09831		-0.08347	-242.2	-440.8
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11956	-0.11389	-547.8	-818.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.03820	-0.03203	40.8	-35.4
			21409	2399.9	3484.1		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.03707		-0.02891	-62.1	-131.5
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04206	0.19408	521.8	987.5
			21416	2405	3486.4		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.09693		-0.08347	-242.2	-442.9
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11817	-0.11389	-547.8	-821.7
			21419	2410.4	3488.8		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24517		-0.18542	-917.3	-1364.2
								C:137200 EDIC 345 137452 N.SCOT77	946							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.34584	0.17278	820.4	1236.9
			21428	2419.1	3492.8		L:130753	FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.28478				
								Base Case								
			21445	2428.6	3497.1		L:130764	MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.09690		-0.08347	-242.2	-444.9
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11759	-0.11389	-547.8	-824.4
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.05270	0.00066	-35.9	-34.2
			21495	2441.4	3502.9		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00024	-0.00033	74.9	74.1
			21496	2441.4	3502.9		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00016	-0.00021	88.8	88.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			22758	2455.9	3509.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-645.1	-1380.0	-0.29924		-0.28478	-566.1	-1265.5
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				0.10675	-0.13551	-740.0	-1072.8
			22953	2464.7	3513.5		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		104.2	180.0	0.03074		0.02393	85.9	144.9
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03510	0.19408	521.8	1000.1
			23032	2486.2	3523.3		L:130770	SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.09819		0.08335	231.9	439.2
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11956	-0.11389	-547.8	-831.0
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.03820	-0.03203	40.8	-38.8
			23034	2486.7	3523.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1				0.00061	-0.00021	88.8	88.3
			23035	2486.7	3523.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04710	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1				0.00092	-0.00033	74.9	74.1
			23059	2503.1	3530.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-667.2	-1380.0	-0.28478		-0.28478	-566.1	-1278.9
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch					
			23065	2507.5	3532.9		L:130767	STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.08323				
								Base Case								
			23071	2513.4	3535.6		L:130770	SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09681		0.08335	231.9	441.4
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11817	-0.11389	-547.8	-834.1
			23072	2513.4	3535.7		L:130753	FRASR345 345 130755 OAKDL345 345 1		-631.2	-1380.0	-0.29793		-0.28478	-566.1	-1281.9
								C:137453 N.SCOT99 345 147833 MARCY T1	12							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07093	-0.18542	-917.3	-1383.3
			23094	2528.5	3542.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1				0.00061	-0.00021	88.8	88.3
			23095	2528.5	3542.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1				0.00092	-0.00033	74.9	74.1
			23097	2529.8	3543.1		L:131018	LOUN115 115 131850 CNYOG115 115 1		14.5	143.0	0.05078		0.03549	17.2	107.0
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.05666	-0.11389	-547.8	-835.9
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.12284	-0.07197	264.1	82.0
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.05531	0.00000	22.7	22.7
			23100	2531.9	3544		L:146758	CHESTER 138 146771 SHOEM138 138 1		-175.4	-262.0	-0.03422				
								Base Case								
			23101	2532.1	3544.2		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.0	180.0	0.03634		0.02436	70.0	131.7
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04303	0.27848	418.2	1123.3
			23105	2535.2	3545.5		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-445.8	-585.0	-0.05492				
								Base Case								
			23107	2537	3546.3		L:130770	SHLDN230 230 131122 WTHRS230 230 1		294.5	540.0	0.09678		0.08335	231.9	443.4
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11759	-0.11389	-547.8	-836.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			23109	2538.2	3546.9		L:130753	Open 135277 FALCONER 115 200579 WARREN 115 1 FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.28478	0.05270	0.00066	-35.9	-34.2
								C:GEN:SEAB&OMS1	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch					0.00002	0.00000	-0.1	-0.1
			23110	2538.2	3546.9*		L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			23112	2542.1	3548.7		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130754 KINTI345 345 149000 ROCH 345	205	71.2	153.0	0.03218		0.02506	52.0	115.7
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03670	0.19408	521.8	1015.1
			23133	2553.8	3554		L:130807	GOUDY115 115 130848 S.OWE115 115 1 C:130755 OAKDL345 345 130757 WATRC345	206	-1.9	-143.0	-0.05524		-0.03549	25.8	-64.8
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.10626	-0.18586	-261.1	-735.8
			23135	2554.7	3554.4		L:135850	SOUR-114 115 135876 TELRDTP1 115 1 C:147834 NIAG 345 345 149000 ROCH 345	226	-84.5	-180.0	-0.03738		-0.02506	-66.0	-130.0
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04425	0.27848	418.2	1129.6
			23137	2555	3554.5		L:131018	LOUNSI115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_2301	634	-13.2	143.0	0.06113		0.03549	17.2	107.9
								Open 130768 WATRC230 230 130772 SHRED230 230 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					0.24197	0.05180	73.0	205.3
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.18210	-0.07197	264.1	80.2
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.12851	0.00000	0.5	0.5
			23141	2558.3	3556		L:130750	COOPC345 345 130753 FRASR345 345 1 C:125000 HURLEY 3 345 137451 LEEDS 3	3	-1092.1	-1703.0	-0.23878		-0.22216	-993.8	-1562.2
								Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1				0.10935	-0.15203	-899.1	-1288.1
			23143	2562.4	3557.9		L:135858	GOLAH115 115 135862 MUMFORD1 115 1 C:147834 NIAG 345 345 149000 ROCH 345	226	-62.8	-173.0	-0.04302		-0.02891	-41.6	-115.6
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.05070	0.27848	418.2	1131.8
			23151	2568	3560.5		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_3451	633	-12.6	-143.0	-0.05078		-0.03549	-15.2	-106.4
								Open 130757 WATRC345 345 200769 HOMER CY 345 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					0.05666	-0.11389	-547.8	-840.3
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.12284	-0.07197	264.1	79.3
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.05531	0.00000	22.7	22.7
			23156	2572.4	3562.4		L:130750	COOPC345 345 130753 FRASR345 345 1 C:126294 PLTVLLEY 345 137451 LEEDS 3	120	-1094.9	-1703.0	-0.23641		-0.22216	-993.8	-1565.3
								Open 126294 PLTVLLEY 345 137451 LEEDS 3	345 2				0.07887	-0.18071	-1281.5	-1746.4
			23159	2573.2	3562.8		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07341		0.00000	-452.2	-452.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.25776	-0.28478	-566.1	-1298.9
								C:130753 FRASR345 345 130755 OAKDL345	200					0.00000	452.2	452.2
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				-0.25776	-0.28478	-566.1	-1298.9
			23172	2580.6	3566.1		L:147834	NIAG 345 345 149000 ROCH 345 345 1 C:130754 KINTI345 345 149000 ROCH 345	205	697.9	1685.0	0.38252		0.27848	418.2	1136.8
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.53609	0.19408	521.8	1022.6
			23173	2581.1	3566.4		L:137200	EDIC 345 137452 N.SCOT77 345 1 C:137453 N.SCOT99 345 147833 MARCY T1	12	1121.1	1724.0	0.23357		0.17278	820.4	1266.4
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				-0.32782	-0.18542	-917.3	-1395.9
			23178	2586.8	3569		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_2301	634	15.1	-143.0	-0.06113		-0.03549	-15.2	-107.0
								Open 130768 WATRC230 230 130772 SHRED230 230 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.24197	0.05180	73.0	207.0
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.18210	-0.07197	264.1	77.9
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.12851	0.00000	0.5	0.5
			23186	2594.1	3572.3		L:130764	MEYER230 230 131122 WTHRS230 230 1 C:147834 NIAG 345 345 149000 ROCH 345	226	-272.0	-540.0	-0.10332		-0.08347	-242.2	-458.7
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.07130	0.27848	418.2	1140.6
			23195	2597.7	3573.9		L:130767	STOLE230 230 130770 SHLDN230 230 1		285.3	540.0	0.09806		0.08323	221.3	437.5

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11956	-0.11389	-547.8	-843.7
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.03820	-0.03203	40.8	-42.4
			23210	2605.3	3577.4		L:130750	COOPC345 345 130753 FRASR345 345 1		-1089.6	-1703.0	-0.23543		-0.22216	-993.8	-1572.6
								C:126294 PLTVLLEY 345 137455 ATHENS	121							
								Open 126294 PLTVLLEY 345 137455 ATHENS	345 1				0.07718	-0.17197	-1241.5	-1689.5
			23215	2606.1	3577.7		L:135861	MORTIMER 115 135873 SWDN-111 115 1		-54.0	-153.0	-0.03800		-0.02548	-35.1	-101.5
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04499	0.27848	418.2	1143.9
			23221	2607.6	3578.4		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		98.4	180.0	0.03128		0.02435	79.8	143.3
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03569	0.19408	521.8	1027.8
			23462	2626.6	3587		L:130767	STOLE230 230 130770 SHLDN230 230 1		286.1	540.0	0.09668		0.08323	221.3	439.9
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11817	-0.11389	-547.8	-847.0
			24698	2637.5	3592		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		47.3	143.0	0.03630		0.03549	17.2	110.8
								C:130755 OAKDL345 345 131128 LAPEER	209							
								Open 130755 OAKDL345 345 131128 LAPEER	345 1				-0.05020	-0.01619	-599.0	-641.7
			24703	2638.1	3592.3		L:137200	EDIC 345 137452 N.SCOT77 345 1		1117.8	1724.0	0.22977		0.17278	820.4	1276.2
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345	345 1				-0.18531	-0.03236	-307.4	-392.7
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				-0.38310	-0.18542	-917.3	-1406.5
								Open 137453 N.SCOT99 345 137516 N.SCOT1	115 1				-0.09741	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2				0.11491	-0.17398	-860.4	-1319.4
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				-0.24149	0.00000	1.6	1.6
			24737	2641.7	3593.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1080.1	-1703.0	-0.23581		-0.22216	-993.8	-1580.7
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345	345 1				0.12469	-0.03236	-307.4	-392.9
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.04434	-0.18542	-917.3	-1407.1
								Open 137453 N.SCOT99 345 137516 N.SCOT1	115 1				-0.00285	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2				0.00801	-0.17398	-860.4	-1320.0
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				-0.01543	0.00000	1.6	1.6
			24770	2650.2	3597.8		L:130767	STOLE230 230 130770 SHLDN230 230 1		283.8	540.0	0.09665		0.08323	221.3	441.9
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11759	-0.11389	-547.8	-849.7
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.05270	0.00066	-35.9	-34.1
			24781	2654.2	3599.6		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		28.2	143.0	0.04327		0.03549	17.2	111.4
								C:130768 WATRC230 230 130772 SHRED230	227							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				0.15025	0.05180	73.0	210.5
			24804	2662.7	3603.5		L:135861	MORTIMER 115 135874 SWDN-113 115 1		-50.4	-153.0	-0.03854		-0.02584	-31.3	-100.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04563	0.27848	418.2	1159.7
			24805	2663.4	3603.7		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-865.1	-1331.0	-0.17495				
								Base Case								
			24807	2666.1	3605		L: Interface	53 PJME-NYE		622.4	787.0	0.06174		0.00000	452.2	452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.43803	0.00000	22.7	22.7
			24808	2666.1	3605		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.06174		0.00000	-452.2	-452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.43803	0.00000	22.7	22.7
			24810	2670	3606.8		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		27.5	143.0	0.04327		0.03549	17.2	111.9
								C:SER:OAKDALE_WATRC2301	595							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				0.15025	0.05180	73.0	211.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130765 OAKDL230 230 130772 SHRED230	230 1	NA						
								Open 130765 OAKDL230 230 130838 OAKDL115	115 1				-0.10159	0.00000	6.8	6.8
			24815	2671.7	3607.5		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			17.2	112.0	0.03549				
							Base Case									
			24825	2673.9	3608.5		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.8	173.0	0.03185		0.02843	77.9	153.9
							C:130764 MEYER230 230 131122 WTHRS230		221							
							Open 130764 MEYER230 230 131122 WTHRS230		230 1				-0.04101	-0.08347	-242.2	-465.3
			24827	2675.7	3609.4		L:130815 HINMN115 115 135452 LOCKPORT 115 1			192.1	280.0	0.03284		0.02477	170.5	236.7
							C:130754 KINTI345 345 149000 ROCH 345		205							
							Open 130754 KINTI345 345 149000 ROCH 345		345 1				0.04157	0.19408	521.8	1041.1
			24830	2676.8	3609.8		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			27.2	143.0	0.04327		0.03549	17.2	112.2
							C:130765 OAKDL230 230 130772 SHRED230		222							
							Open 130765 OAKDL230 230 130772 SHRED230		230 1				-0.15025	-0.05180	-66.5	-205.1
			24832	2677.6	3610.2		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			27.1	143.0	0.04327		0.03549	17.2	112.2
							C:130765 OAKDL230 230 130838 OAKDL115		223							
							Open 130765 OAKDL230 230 130838 OAKDL115		115 1				0.15025	0.05180	66.2	204.9
			24842	2685.7	3613.9		L:130815 HINMN115 115 135452 LOCKPORT 115 1			195.3	280.0	0.03152		0.02477	170.5	237.0
							C:130766 ROBIN230 230 130767 STOLE230		224							
							Open 130766 ROBIN230 230 130767 STOLE230		230 1				0.26884	0.02512	92.6	160.0
			24847	2687.4	3614.7		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.4	173.0	0.03184		0.02843	77.9	154.3
							C:130770 SHLDN230 230 131122 WTHRS230		228							
							Open 130770 SHLDN230 230 131122 WTHRS230		230 1				0.04101	0.08335	231.9	455.9
			24851	2691.1	3616.3		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-45.3	-143.0	-0.03630		-0.03549	-15.2	-110.7
							C:130755 OAKDL345 345 131128 LAPEER		209							
							Open 130755 OAKDL345 345 131128 LAPEER		345 1				0.05020	-0.01619	-599.0	-642.6
			24856	2694.6	3617.9		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			75.9	173.0	0.03604		0.02843	77.9	154.5
							C:130754 KINTI345 345 147834 NIAG 345		204							
							Open 130754 KINTI345 345 147834 NIAG 345		345 1				-0.04136	-0.18401	48.6	-447.2
			24858	2696	3618.6		L:130770 SHLDN230 230 131122 WTHRS230 230 1			261.8	540.0	0.10321		0.08335	231.9	456.7
							C:147834 NIAG 345 345 149000 ROCH 345		226							
							Open 147834 NIAG 345 345 149000 ROCH 345		345 1				0.07130	0.27848	418.2	1168.9
			24861	2699.1	3620		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-26.2	-143.0	-0.04327		-0.03549	-15.2	-111.0
							C:130768 WATRC230 230 130772 SHRED230		227							
							Open 130768 WATRC230 230 130772 SHRED230		230 1				-0.15025	0.05180	73.0	212.8
			24868	2701.6	3621.1		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.0	173.0	0.03184		0.02843	77.9	154.7
							C:130767 STOLE230 230 130770 SHLDN230		226							
							Open 130767 STOLE230 230 130770 SHLDN230		230 1				0.04101	0.08323	221.3	446.2
			24881	2704.7	3622.5		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-860.4	-1331.0	-0.17398				
							Base Case									
			24895	2715	3627.2		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.5	-143.0	-0.04327		-0.03549	-15.2	-111.6
							C:SER:OAKDALE WATRC2301		595							
							Open 130768 WATRC230 230 130772 SHRED230		230 1				-0.15025	0.05180	73.0	213.6
							Open 130765 OAKDL230 230 130772 SHRED230		230 1	NA						
							Open 130765 OAKDL230 230 130838 OAKDL115		115 1				0.10159	0.00000	6.8	6.8
			24904	2721.7	3630.2		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.8
							C:130765 OAKDL230 230 130772 SHRED230		222							
							Open 130765 OAKDL230 230 130772 SHRED230		230 1				0.15025	-0.05180	-66.5	-207.5
			24906	2722.2	3630.5		L:130815 HINMN115 115 131611 HARSIS115 115 1			-219.0	-306.0	-0.03194		-0.02411	-198.0	-263.6
							C:130754 KINTI345 345 149000 ROCH 345		205							
							Open 130754 KINTI345 345 149000 ROCH 345		345 1				-0.04038	0.19408	521.8	1051.1
			24907	2722.3	3630.5		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			-20.9	143.0	0.06019		0.03549	17.2	113.8
							C:130763 HILSD230 230 130768 WATRC230		219							
							Open 130763 HILSD230 230 130768 WATRC230		230 1				0.19958	0.12377	-190.6	146.3
			24908	2722.6	3630.6		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.9
							C:130765 OAKDL230 230 130838 OAKDL115		223							
							Open 130765 OAKDL230 230 130838 OAKDL115		115 1				-0.15025	0.05180	66.2	207.3
			24909	2723.6	3631.1		L:130750 COOPC345 345 130753 FRASR345 345 1			-1060.5	-1703.0	-0.23589		-0.22216	-993.8	-1598.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:125000 HURLEY 3 345 125002 ROSETON	1							
								Open 125000 HURLEY 3 345 125002 ROSETON	345 1				-0.10122	0.13569	659.1	1028.7
			24917	2726.5	3632.4		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-15.2	-112.0	-0.03549				
								Base Case								
			24926	2734.1	3635.9		L:130815 HINMN115 115 131611 HARIS115 115 1			-222.2	-306.0	-0.03067		-0.02411	-198.0	-263.9
								C:130766 ROBIN230 230 130767 STOLE230	224							
								Open 130766 ROBIN230 230 130767 STOLE230	230 1				-0.26115	0.02512	92.6	161.3
			24927	2735.4	3636.5		L:130753 FRASR345 345 137200 EDIC 345 1			-888.0	-1380.0	-0.17986		-0.09129	-712.0	-961.7
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.31098	-0.28478	-566.1	-1345.1
			24932	2738.7	3638		L:137451 LEEDS 3 345 147831 GILB 345 345 1			-1313.8	-1912.0	-0.21844		-0.15578	-915.6	-1342.2
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					0.62610	-0.03236	-307.4	-396.0
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.16119	-0.18542	-917.3	-1425.1
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					0.03268	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.07200	-0.17398	-860.4	-1336.9
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.10447	0.00000	1.6	1.6
			24947	2754.6	3645.2		L:130848 S.OWE115 115 131850 CNYOG115 115 1			22.8	-143.0	-0.06019		-0.03549	-15.2	-113.0
								C:130763 HILSD230 230 130768 WATRC230	219							
								Open 130763 HILSD230 230 130768 WATRC230	230 1				-0.19958	0.12377	-190.6	150.3
			24962	2761.1	3648.2		L:125001 ROCK TAV 345 126297 RAMAPO 345 1			1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01700	1505.3	1458.4
			24963	2761.1	3648.2		L:125001 ROCK TAV 345 126297 RAMAPO 345 1			1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:125002 ROSETON 345 126281 FISHKILL	10							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01700	1505.3	1458.4
			25029	2793.9	3663.1		L:130815 HINMN115 115 135452 LOCKPORT 115 1			191.0	280.0	0.03185		0.02477	170.5	239.7
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230	230 1				-0.08488	-0.08347	-242.2	-475.4
			25088	2802.4	3666.9		L:130767 STOLE230 230 130770 SHLDN230 230 1			251.1	540.0	0.10308		0.08323	221.3	454.5
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.07130	0.27848	418.2	1198.6
			25092	2803	3667.2		L:130750 COOPC345 345 130753 FRASR345 345 1			-1047.7	-1703.0	-0.23379		-0.22216	-993.8	-1616.5
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.03869	-0.04334	-242.4	-363.9
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.01601	0.00032	113.3	114.2
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.05550	0.17278	820.4	1304.7
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.00921	-0.04086	-84.4	-199.0
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01098	0.00000	0.0	0.0
			25106	2803.8	3667.6		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			85.4	173.0	0.03126		0.02843	77.9	157.6
								C:135850 SOUR-114 115 135876 TELRDTP1	673							
								Open 135850 SOUR-114 115 135876 TELRDTP1 115 1					-0.11295	-0.02506	-66.0	-136.3
			25206	2808	3669.5		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			85.9	173.0	0.03101		0.02843	77.9	157.7
								C:135452 LOCKPORT 115 135872 SOUR-111	599							
								Open 135452 LOCKPORT 115 135872 SOUR-111 115 1					0.10725	0.02407	74.8	142.4
			26113	2811.9	3671.2		L:135452 LOCKPORT 115 135872 SOUR-111 115 1			73.1	159.0	0.03056		0.02407	74.8	142.5
								C:130754 KINTI345 345 147834 NIAG 345	204							
								Open 130754 KINTI345 345 147834 NIAG 345	345 1				-0.03527	-0.18401	48.6	-468.8
			26120	2812	3671.2		L:130764 MEYER230 230 131122 WTHRS230 230 1			-273.0	-540.0	-0.09495		-0.08347	-242.2	-476.9
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				-0.05915	0.19408	521.8	1067.5
			26232	2812.5	3671.5		L: Interface 59 MarcySouthS			1935.4	3048.0	0.39561		0.35766	1733.8	2739.7
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.09642	-0.03236	-307.4	-398.4
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.15078	-0.18542	-917.3	-1438.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00329	0.00046	120.3	121.6
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					-0.03947	-0.17398	-860.4	-1349.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			26428	2815	3672.6		L:130764	Open 137452 N.SCOT77 345 137453 N.SCOT99 MEYER230 230 131122 WTHRS230 230 1	345 1				0.02283	0.00000	1.6	1.6
								C:BUS:WATERCURE 3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.06554	-0.11389	-547.8	-868.4
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.11714	-0.07197	264.1	61.5
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.05466	0.00000	22.7	22.7
			26508	2819	3674.4		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		84.3	173.0	0.03148		0.02843	77.9	158.0
								C:135850 SOUR-114 115 135861 MORTIMER	672							
								Open 135850 SOUR-114 115 135861 MORTIMER	115 1				0.12194	0.02506	52.0	122.7
			26512	2819.2	3674.5*		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		85.6	173.0	0.03101		0.02843	77.9	158.0
								C:135872 SOUR-111 115 135873 SWDN-111	706							
								Open 135872 SOUR-111 115 135873 SWDN-111	115 1				0.10725	0.02407	71.5	139.4
			26532	2822	3675.8		L:130815	HINMN115 115 135452 LOCKPORT 115 1		190.1	280.0	0.03184		0.02477	170.5	240.3
								C:130770 SHLDN230 230 131122 WTHRS230	228							
								Open 130770 SHLDN230 230 131122 WTHRS230	230 1				0.08488	0.08335	231.9	467.2
			26608	2833.2	3680.9		L: Interface	32 F-To-G		4206.2	6118.0	0.67479		0.56513	3715.6	5316.7
								C:130750 COOPC345 345 130753 FRASR345	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				-0.49363	-0.22216	-993.8	-1623.2
			26652	2841.6	3684.7		L:130815	HINMN115 115 131611 HARS115 115 1		-217.9	-306.0	-0.03099		-0.02411	-198.0	-266.5
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230	230 1				0.08245	-0.08347	-242.2	-479.3
			26716	2850.3	3688.7		L:136150	CLAY 345 137200 EDIC 345 2		770.0	1434.0	0.23297		0.17531	579.4	1079.1
								C:136150 CLAY 345 137200 EDIC	715							
								Open 136150 CLAY 345 137200 EDIC	345 1				0.33000	0.17473	577.6	1075.6
			26727	2851.3	3689.1		L:130815	HINMN115 115 135452 LOCKPORT 115 1		189.2	280.0	0.03183		0.02477	170.5	241.1
								C:130767 STOLE230 230 130770 SHLDN230	226							
								Open 130767 STOLE230 230 130770 SHLDN230	230 1				0.08488	0.08323	221.3	458.6
			28167	2863.8	3694.8		L:136150	CLAY 345 137200 EDIC 345 1		768.3	1434.0	0.23245		0.17473	577.6	1077.9
								C:136150 CLAY 345 137200 EDIC	716							
								Open 136150 CLAY 345 137200 EDIC	345 2				0.32926	0.17531	579.4	1081.4
			28220	2869.7	3697.5		L:130815	HINMN115 115 131611 HARS115 115 1		-217.1	-306.0	-0.03098		-0.02411	-198.0	-267.2
								C:130770 SHLDN230 230 131122 WTHRS230	228							
								Open 130770 SHLDN230 230 131122 WTHRS230	230 1				-0.08245	0.08335	231.9	471.1
			28224	2870.2	3697.7*		L:130750	COOPC345 345 130753 FRASR345 345 1		-1027.3	-1703.0	-0.23543		-0.22216	-993.8	-1631.4
								C:137451 LEEDS 3 345 137455 ATHENS	6							
								Open 137451 LEEDS 3 345 137455 ATHENS	345 1				-0.07718	0.17197	433.7	927.3
			28256	2884	3704		L:130764	MEYER230 230 131122 WTHRS230 230 1		-256.6	-540.0	-0.09828		-0.08347	-242.2	-482.9
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA	230 1				0.11660	-0.12699	-123.7	-489.9
			28287	2899	3710.8		L:130815	HINMN115 115 131611 HARS115 115 1		-216.2	-306.0	-0.03097		-0.02411	-198.0	-267.9
								C:130767 STOLE230 230 130770 SHLDN230	226							
								Open 130767 STOLE230 230 130770 SHLDN230	230 1				-0.08245	0.08323	221.3	462.6
			28292	2902.5	3712.4		L: Interface	59 MarcySouthS		1810.7	3048.0	0.42629		0.35766	1733.8	2771.9
								C:130753 FRASR345 345 147831 GILB 345	203							
								Open 130753 FRASR345 345 147831 GILB 345	345 1				0.36478	0.18814	210.7	756.8
			28314	2917.8	3719.3		L:135872	SOUR-111 115 135873 SWDN-111 115 1		69.8	159.0	0.03056		0.02407	71.5	141.8
								C:130754 KINTI345 345 147834 NIAG 345	204							
								Open 130754 KINTI345 345 147834 NIAG 345	345 1				-0.03527	-0.18401	48.6	-488.3
			28327	2921.1	3720.8		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.6	180.0	0.03128		0.02436	70.0	141.1
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03569	0.19408	521.8	1088.7
			28333	2923.1	3721.7		L:130770	SHLDN230 230 131122 WTHRS230 230 1		262.8	540.0	0.09483		0.08335	231.9	475.6
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.05915	0.19408	521.8	1089.1
			28338	2930.8	3725.2		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1122.6	-1792.0	-0.22839		-0.18542	-917.3	-1460.7
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				-0.09197	-0.04334	-242.4	-369.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.02619	0.00032	113.3	114.3
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.28818	0.17278	820.4	1326.8
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.06914	-0.04086	-84.4	-204.2
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.13842	0.00000	0.0	0.0
			28342	2934.2	3726.8		L:130753 FRASR345 345 147831 GILB 345 345 1			670.4	1524.0	0.29091	0.18814		210.7	762.7
							C:130750 COOPC345 345 130753 FRASR345		192							
							Open 130750 COOPC345 345 130753 FRASR345		345 1				-0.46259	-0.22216	-993.8	-1645.6
			28348	2940	3729.4*		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			38.9	143.0	0.03539	0.03549		17.2	121.5
							C:131128 LAPEER 345 136153 LAFAYTTE		392							
							Open 131128 LAPEER 345 136153 LAFAYTTE		345 1				-0.03223	0.00296	-675.2	-666.5
			28353	2943	3730.7		L:130770 SHLDN230 230 131122 WTHRS230 230 1			297.5	540.0	0.08238	0.08335		231.9	477.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.06554	-0.11389	-547.8	-883.0
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.11714	-0.07197	264.1	52.3
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.05466	0.00000	22.7	22.7
			28360	2947.3	3732.7		L:135850 SOUR-114 115 135876 TELRDTPI 115 1			-85.1	-180.0	-0.03218	-0.02506		-66.0	-139.8
							C:130754 KINTI345 345 149000 ROCH 345		205							
							Open 130754 KINTI345 345 149000 ROCH 345		345 1				-0.03671	0.19408	521.8	1093.8
			28361	2947.5	3732.8		L: Interface 59 MarcySouthS			1893.6	3048.0	0.39165	0.35766		1733.8	2788.1
							C:BUS:N.S._771		615							
							Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						-0.06563	-0.04334	-242.4	-370.1
							Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1						-0.04917	0.00032	113.3	114.3
							Open 137200 EDIC 345 137452 N.SCOT77 345 1						0.18354	0.17278	820.4	1329.7
							Open 137450 ALPS345 345 137452 N.SCOT77 345 1						0.01360	-0.04086	-84.4	-204.9
							Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1						-0.01140	0.00000	0.0	0.0
			28366	2954.1	3735.8		L:135858 GOLAH115 115 135862 MUMFORD1 115 1			-63.5	-173.0	-0.03707	-0.02891		-41.6	-126.9
							C:130754 KINTI345 345 149000 ROCH 345		205							
							Open 130754 KINTI345 345 149000 ROCH 345		345 1				-0.04206	0.19408	521.8	1095.1
			28367	2955	3736.2		L:137200 EDIC 345 137452 N.SCOT77 345 1			820.4	1331.0	0.17278				
							Base Case									
			28369	2955.9	3736.6		L:130794 DELHI115 115 130838 OAKDL115 115 1			-73.8	-179.0	-0.03560	-0.01879		-40.4	-95.9
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345		345 1				0.05900	-0.28478	-566.1	-1407.9
			28372	2963	3739.8		L: Interface 19 PJM-NY			2403.4	3114.0	0.23984	0.23984		1506.8	2217.4
							C:GEN:SEAB&OMS1		576							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						-0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			28373	2963	3739.8		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.23984	-0.23984		-1506.8	-2217.4
							C:GEN:SEAB&OMS1		576							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			28374	2963	3739.8		L: Interface 19 PJM-NY			2403.4	3114.0	0.23984	0.23984		1506.8	2217.4
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			28375	2963	3739.8		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.23984	-0.23984		-1506.8	-2217.4
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			28382	2971.9	3743.9		L:137451 LEEDS 3 345 137455 ATHENS 345 1			983.5	1725.0	0.24949	0.17197		433.7	944.8
							C:126294 PLTVLLEY 345 137451 LEEDS 3		120							
							Open 126294 PLTVLLEY 345 137451 LEEDS 3		345 2				-0.42902	-0.18071	-1281.5	-1818.6
			28385	2980.8	3747.9		L: Interface 19 PJM-NY			2399.1	3114.0	0.23984	0.23984		1506.8	2221.7
							C:SIN:2501		678							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch									
			28386	2980.8	3747.9		L: Interface 35 NY-PJM			-2399.1	-3114.0	-0.23984	-0.23984		-1506.8	-2221.7
							C:SIN:2501		678							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00004	0.00000	-0.1	-0.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28390	2985	3749.8		L:146769	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch RAMP138 138 146773 SGRLF138 138 2		-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:SIN:4401	684							
			28391	2985	3749.8		L:146769	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 RAMP138 138 146773 SGRLF138 138 2		-151.4	-351.0	-0.06688	-0.14310	0.22243	1116.0	1779.9
								C:125001 ROCK TAV 345 126297 RAMAPO	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.14310	0.22243	1116.0	1779.9
			28392	2988.2	3751.3		L:130836	N.WAV115 115 131018 LOUNSI15 115 1		-9.7	173.0	0.06113		0.03549	20.7	126.8
								C:BUS:WATERCURE_2301	634							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.24197	0.05180	73.0	227.8
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.18210	-0.07197	264.1	49.0
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.12851	0.00000	0.5	0.5
			28394	2991.4	3752.8		L:130770	SHLDN230 230 131122 WTHRS230 230 1		246.4	540.0	0.09816		0.08335	231.9	481.3
								C:LKWANA-OXBWL	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					-0.11660	-0.12699	-123.7	-503.5
			28397	2992.7	3753.3		L:130768	WATRC230 230 130772 SHRED230 230 1		140.7	440.0	0.10001		0.05180	73.0	228.0
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.25937	-0.18586	-261.1	-817.3
			28400	2994.9	3754.3*		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-37.0	-143.0	-0.03539		-0.03549	-15.2	-121.5
								C:131128 LAPEER 345 136153 LAFAYTTE	392							
								Open 131128 LAPEER 345 136153 LAFAYTTE 345 1					0.03223	0.00296	-675.2	-666.4

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:14 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33732  
 First violation - -168790.9 MW.

Interface-1 Interface 30 CE+Fras-gilb Init.Flow= 2604.75 TDF= 0.6423

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_E_EXP	GHI_IMPORT	3000.0	1	-168790	-105816		L: Interface	21 PJM-WEST		5144.2	0.0	0.03048		0.04851	5119.7	-3068.1
							C:SER:C39	606								
							Open	409 GROVER	230 200675 E.TWANDA	230 1			0.06508	0.00121	-15.5	-220.4
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.17331	-0.07681	116.1	13081.4
							Open	381 TOWANDA	115 200675 E.TWANDA	230 1			0.01303	-0.00624	-52.6	1001.3
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.14729	-0.03203	40.8	5446.7
			2	-168568	-105672		L: Interface	21 PJM-WEST		5145.8	0.0	0.03053		0.04851	5119.7	-3057.3
							C:SER:ETH	607								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.17129	-0.07681	116.1	13064.3
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.15067	-0.03203	40.8	5439.6
			3	-150404	-94005.9		L: Interface	21 PJM-WEST		5140.3	0.0	0.03418		0.04851	5119.7	-2176.2
							C:ETHS/LL	650								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.13790	-0.07681	116.1	11669.1
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1			0.12173	-0.03072	37.4	4658.5
			4	-131914	-82129.1		L: Interface	21 PJM-WEST		5134.2	0.0	0.03892		0.04851	5119.7	-1279.3
							C:130763	375								
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.12483	-0.07681	116.1	10248.8
			5	-124161	-77148.6		L: Interface	21 PJM-WEST		5130.8	0.0	0.04132		0.04851	5119.7	-903.2
							C:130763	219								
							Open	130763 HILSD230	230 130768 WATRC230	230 1			-0.05805	0.12377	-190.6	-15557.8
			6	-121885	-75686.9		L: Interface	21 PJM-WEST		5137.5	0.0	0.04215		0.04851	5119.7	-792.8
							C:BUS:WAT	634								
							Open	130768 WATRC230	230 130772 SHRED230	230 1			-0.02068	0.05180	73.0	-6240.8
							Open	130757 WATRC345	345 130768 WATRC230	230 1			0.07347	-0.07197	264.1	9035.8
							Open	130763 HILSD230	230 130768 WATRC230	230 1			-0.18954	0.00000	0.5	0.5
			7	-118791	-73699.6		L: Interface	21 PJM-WEST		5050.1	0.0	0.04251		0.04851	5119.7	-642.7
							C:MULT041	657								
							Open	9 JUNIATA	500 21 SUNBURY	500 1			-0.13385	0.04394	526.9	-4693.3
							Open	21 SUNBURY	500 3084 SUNBURY	230 24			-0.00697	0.01650	-120.9	-2080.7
			8	-117669	-72978.6		L: Interface	21 PJM-WEST		5137.5	0.0	0.04366		0.04851	5119.7	-588.3
							C:130757	213								
							Open	130757 WATRC345	345 130768 WATRC230	230 1			0.06737	-0.07197	264.1	8732.4
			9	-113038	-70003.8		L: Interface	21 PJM-WEST		5189.8	0.0	0.04591		0.04851	5119.7	-363.6
							C:SER:HC-	601								
							Open	135398 SW345	345 200769 HOMER CY	345 1			-0.17843	0.01428	-377.8	-1992.1
							Open	135277 FALCONER	115 200579 WARREN	115 1			-0.07359	0.00066	-35.9	-110.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10	-112373	-69576.8	*	L: Interface	21 PJM-WEST		5182.9	0.0	0.04612		0.04851	5119.7	-331.4
							C:135398		380							
							Open	135398 SW345	345 200769 HOMER CY	345 1			-0.16713	0.01428	-377.8	-1982.6
			1756	-76536.8	-46557.7		L: Interface	20 PJM-CENT		3534.1	0.0	0.04617		0.10355	3274.5	-4651.1
							C:126260		79							
							Open	126260 BOWLINE1	345 146750 WHAV345	345 10			-0.55144	0.10405	-470.6	-8434.6
			1762	-58763.2	-35141.1		L: Interface	20 PJM-CENT		3475.2	0.0	0.05914		0.10355	3274.5	-2810.6
							C:SIN:301		666							
							Open	126260 BOWLINE1	345 146841 BOWL NA							
							Open	126260 BOWLINE1	345 146750 WHAV345	345 10			-0.42591	0.10405	-470.6	-6585.2
							Open	126290 LADENTWN	345 146750 WHAV345	345 1			-0.00103	0.09522	-170.9	-5766.1
			1763	-52472.9	-31100.5		L: Interface	20 PJM-CENT		3233.7	0.0	0.06163		0.10355	3274.5	-2159.2
							C:LKWANA-		652							
							Open	417 OXBOW	230 3070 LACKAWNA	230 1			0.33015	-0.12699	-123.7	6540.0
			1764	-50407.2	-29773.7		L: Interface	20 PJM-CENT		3327.1	0.0	0.06600		0.10355	3274.5	-1945.3
							C:ETHS/NW		649							
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.28217	-0.07681	116.1	3988.0
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.25854	-0.03203	40.8	1655.2
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1			0.24719	-0.03072	37.4	1586.1
			1765	-42325.9	-24582.8		L: Interface	20 PJM-CENT		3308.8	0.0	0.07817		0.10355	3274.5	-1108.5
							C:SER:C39		606							
							Open	409 GROVER	230 200675 E.TWANDA	230 1			0.09832	0.00121	-15.5	-66.9
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.24421	-0.07681	116.1	3367.2
							Open	381 TOWANDA	115 200675 E.TWANDA	230 1			0.01929	-0.00624	-52.6	211.7
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.20672	-0.03203	40.8	1396.4
			1766	-42317	-24577		L: Interface	20 PJM-CENT		3311.2	0.0	0.07825		0.10355	3274.5	-1107.5
							C:SER:ETH		607							
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.24118	-0.07681	116.1	3366.5
							Open	130836 N.WAV115	115 200676 E.SAYRE	115 1			0.21172	-0.03203	40.8	1396.1
			1767	-39597.7	-22830.3		L: Interface	20 PJM-CENT		3303.4	0.0	0.08342		0.10355	3274.5	-825.9
							C:ETHS/LL		650							
							Open	130763 HILSD230	230 200675 E.TWANDA	230 1			0.19413	-0.07681	116.1	3157.7
							Open	130807 GOUDY115	115 200680 LAUREL L	115 1			0.16981	-0.03072	37.4	1254.0
			1768	-38348.8	-22028.1		L: Interface	20 PJM-CENT		3971.1	0.0	0.10355		0.10355	3274.5	-696.6
							C:GEN:PEA		569							
							Remove unit 1 from bus	34 PCHBTM 2	22.0 1059.5 MW dispatch							
			1769	-37854.9	-21710.8		L: Interface	20 PJM-CENT		3920.0	0.0	0.10355		0.10355	3274.5	-645.5
							C:GEN:SAL		568							
							Remove unit 1 from bus	36 SALEM-G1	22.0 1117.3 MW dispatch							
			1770	-36632.7	-20925.8	*	L: Interface	20 PJM-CENT		3793.4	0.0	0.10355		0.10355	3274.5	-518.9
							C:SIN:250		678							
							Open	100508 SANDB115	115 100509 SB RCTOR	115 2			-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus	103563 MILL#3	24.0 1276.0 MW dispatch							
			3525	-7164.1	-1997		L: Interface	47 C-PJMWest		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755		206							
							Open	130755 OAKDL345	345 130757 WATRC345	345 1			-0.25046	-0.18586	-261.1	1070.4
			3526	-7164.1	-1997		L: Interface	48 PJMWest-C		482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755		206							
							Open	130755 OAKDL345	345 130757 WATRC345	345 1			0.25046	-0.18586	-261.1	1070.4
			3527	-7164.1	-1997		L: Interface	60 C2PJMC		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755		206							
							Open	130755 OAKDL345	345 130757 WATRC345	345 1			-0.25046	-0.18586	-261.1	1070.4
			3528	-7164.1	-1997		L: Interface	61 PJMC2C		482.4	0.0	0.06734		0.11389	547.8	-268.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755	206							
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.25046	-0.18586	-261.1	1070.4
			3529	-5962	-1224.9		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3530	-5962	-1224.9		L: Interface	60 C2PJMC		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3531	-5962	-1224.9		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3532	-5962	-1224.9		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3533	-5962	-1224.9		L: Interface	48 PJMWest-C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345NA							
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3534	-5962	-1224.9		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345NA							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch							
			3535	-5962	-1224.9		L: Interface 48 PJMWest-C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:130	669								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1					0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2					0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1					-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3536	-5962	-1224.9		L: Interface 60 C2PJMC			-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:130	669								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1					-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2					-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1					0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3537	-5810.5	-1127.6		L: Interface 47 C-PJMWest			-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.10467	-0.28478	-566.1	1088.6
			3538	-5810.5	-1127.6		L: Interface 60 C2PJMC			-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.10467	-0.28478	-566.1	1088.6
			3539	-5810.5	-1127.6		L: Interface 48 PJMWest-C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.10467	-0.28478	-566.1	1088.6
			3540	-5810.5	-1127.6		L: Interface 61 PJMC2C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.10467	-0.28478	-566.1	1088.6
			3541	-5627.1	-1009.8		L: Interface 48 PJMWest-C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					-0.03968	0.23158	-1041.8	-2344.9
			3542	-5627.1	-1009.8		L: Interface 47 C-PJMWest			-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					0.03968	0.23158	-1041.8	-2344.9
			3543	-5627.1	-1009.8		L: Interface 60 C2PJMC			-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					0.03968	0.23158	-1041.8	-2344.9
			3544	-5627.1	-1009.8		L: Interface 61 PJMC2C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 1					0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 2					-0.03968	0.23158	-1041.8	-2344.9
			3545	-5586	-983.4		L: Interface 48 PJMWest-C			621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC	601								
							Open 135398 SW345 345 200769 HOMER CY	345 1					-0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER 115 200579 WARREN	115 1					-0.06273	0.00066	-35.9	-39.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3546	-5586	-983.4		L: Interface	47 C-PJMWest		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
							C:SER:HC-	601								
							Open	135398 SW345	345 200769 HOMER CY	345 1			0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER	115 200579 WARREN	115 1			0.06273	0.00066	-35.9	-39.6
			3547	-5586	-983.4		L: Interface	61 PJMC2C		621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC-	601								
							Open	135398 SW345	345 200769 HOMER CY	345 1			-0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER	115 200579 WARREN	115 1			-0.06273	0.00066	-35.9	-39.6
			3548	-5586	-983.4		L: Interface	60 C2PJMC		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
							C:SER:HC-	601								
							Open	135398 SW345	345 200769 HOMER CY	345 1			0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER	115 200579 WARREN	115 1			0.06273	0.00066	-35.9	-39.6
			3549	-5575.3	-976.5		L: Interface	60 C2PJMC		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND	773								
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 2			0.03827	0.22576	-1018.5	-2277.2
			3550	-5575.3	-976.5		L: Interface	48 PJMWest-C		586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND	773								
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 2			-0.03827	0.22576	-1018.5	-2277.2
			3551	-5575.3	-976.5		L: Interface	47 C-PJMWest		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND	773								
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 2			0.03827	0.22576	-1018.5	-2277.2
			3552	-5575.3	-976.5		L: Interface	61 PJMC2C		586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND	773								
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345	345 126651 IND PT 2	22.0 2			-0.03827	0.22576	-1018.5	-2277.2
			3553	-5549.4	-959.8		L: Interface	48 PJMWest-C		634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-7	777								
							Open	147827 MARCY765	765 147828 MASS 74	NA						
							Open	147828 MASS 765	765 180819 CHA-NY	NA						
							Open	147827 MARCY765	765 147833 MARCY T1	345 1			0.02482	0.00782	624.3	580.8
							Open	147827 MARCY765	765 147833 MARCY T1	345 2			0.02482	0.00680	543.3	505.5
							Open	156 MCY765SW	0.0 147827 MARCY74	NA						
							Open	147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	51.3
							Open	147828 MASS 765	765 147838 MASS230A	NA						
							Open	147837 MASS230A	230 147839 MOSES E	230 1			-0.05509	0.00000	18.8	18.8
							Open	147828 MASS 765	765 147837 MASS230A	NA						
							Open	158 MS765SW2	0.0 147828 MASS 74	NA						
							Open	157 MS765SW1	0.0 147828 MASS 74	NA						
							Decrease	bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
							Set	bus 181319 CHAT G3	120 load to357.0 MW dispatch							
							Decrease	bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
							Set	bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3554	-5549.4	-959.8		L: Interface	60 C2PJMC		-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-7	777								
							Open	147827 MARCY765	765 147828 MASS 74	NA						
							Open	147828 MASS 765	765 180819 CHA-NY	NA						
							Open	147827 MARCY765	765 147833 MARCY T1	345 1			-0.02482	0.00782	624.3	580.8
							Open	147827 MARCY765	765 147833 MARCY T1	345 2			-0.02482	0.00680	543.3	505.5
							Open	156 MCY765SW	0.0 147827 MARCY74	NA						
							Open	147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	51.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 147828 MASS 765 765 147838 MASS230A	NA						
									Open 147837 MASS230A 230 147839 MOSES E 230 1				0.05509	0.00000	18.8	18.8
									Open 147828 MASS 765 765 147837 MASS230A	NA						
									Open 158 MS765SW2 0.0 147828 MASS 74NA							
									Open 157 MS765SW1 0.0 147828 MASS 74NA							
									Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3 120 load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4 120 load to357.0 MW dispatch							
			3555	-5549.4	-959.8		L: Interface 47 C-PJMWest			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-7		777							
							Open 147827 MARCY765 765 147828 MASS 74NA									
							Open 147828 MASS 765 765 180819 CHA-NY NA									
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY74NA									
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230A									
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A									
							Open 158 MS765SW2 0.0 147828 MASS 74NA									
							Open 157 MS765SW1 0.0 147828 MASS 74NA									
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3556	-5549.4	-959.8		L: Interface 61 PJMC2C			634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-7		777							
							Open 147827 MARCY765 765 147828 MASS 74NA									
							Open 147828 MASS 765 765 180819 CHA-NY NA									
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY74NA									
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230A									
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A									
							Open 158 MS765SW2 0.0 147828 MASS 74NA									
							Open 157 MS765SW1 0.0 147828 MASS 74NA									
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3557	-5524.2	-943.6		L: Interface 47 C-PJMWest			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01428	-377.8	-456.7
			3558	-5524.2	-943.6		L: Interface 60 C2PJMC			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01428	-377.8	-456.7
			3559	-5524.2	-943.6		L: Interface 61 PJMC2C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398		380							
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01428	-377.8	-456.7
			3560	-5524.2	-943.6		L: Interface 48 PJMWest-C			615.1	0.0	0.11135		0.11389	547.8	-81.3



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:135398		380						
								Open 135398 SW345	345 200769 HOMER	CY	345 1		-0.17807	0.01428	-377.8	-456.7
			3561	-5517.4	-939.3	*	L: Interface	60 C2PJMJC			-628.4	0.0	-0.11389	-0.11389	-547.8	80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7 MW dispatch					
			3562	-5517.4	-939.3	*	L: Interface	48 PJMWest-C			628.4	0.0	0.11389	0.11389	547.8	-80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7 MW dispatch					
			3563	-5517.4	-939.3	*	L: Interface	47 C-PJMWest			-628.4	0.0	-0.11389	-0.11389	-547.8	80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7 MW dispatch					
			3564	-5517.4	-939.3	*	L: Interface	61 PJMC2C			628.4	0.0	0.11389	0.11389	547.8	-80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7 MW dispatch					
			3601	-5252.6	-769.2		L: Interface	55 PJME-NYEnoRE			1498.1	1287.0	0.04020	0.00000	1299.4	1299.4
								C:SER:HC-		602						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		-0.35376	-0.11389	-547.8	50.4
								Open 135277 FALCONER	115 200579 WARREN		115 1		-0.13836	0.00066	-35.9	-39.3
			3602	-5252.6	-769.2		L: Interface	56 NYE-PJMENoRE			-1498.1	-1287.0	-0.04020	0.00000	-1299.4	-1299.4
								C:SER:HC-		602						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		0.35376	-0.11389	-547.8	50.4
								Open 135277 FALCONER	115 200579 WARREN		115 1		0.13836	0.00066	-35.9	-39.3
			3635	-5118.8	-683.3		L: Interface	55 PJME-NYEnoRE			1492.4	1287.0	0.04012	0.00000	1299.4	1299.4
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		-0.35224	-0.11389	-547.8	35.2
			3636	-5118.8	-683.3		L: Interface	56 NYE-PJMENoRE			-1492.4	-1287.0	-0.04012	0.00000	-1299.4	-1299.4
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		0.35224	-0.11389	-547.8	35.2
			3677	-5022.6	-621.5		L: Interface	52 PJMEast-G			239.7	0.0	0.04772	0.00000	0.3	0.3
								C:125001		7						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		0.21456	0.22243	1116.0	-1.2
			3678	-5022.6	-621.5		L: Interface	51 G-PJMEast			-239.7	0.0	-0.04772	0.00000	-0.3	-0.3
								C:SIN:440		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		-0.21456	0.22243	1116.0	-1.2
			3679	-5022.6	-621.5		L: Interface	51 G-PJMEast			-239.7	0.0	-0.04772	0.00000	-0.3	-0.3
								C:125001		7						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		-0.21456	0.22243	1116.0	-1.2
			3680	-5022.6	-621.5		L: Interface	52 PJMEast-G			239.7	0.0	0.04772	0.00000	0.3	0.3
								C:SIN:440		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		0.21456	0.22243	1116.0	-1.2
			10225	-4788.7	-471.2		L: Interface	55 PJME-NYEnoRE			1475.1	1287.0	0.03929	0.00000	1299.4	1299.4
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		-0.17684	-0.22216	-993.8	70.0
			10226	-4788.7	-471.2		L: Interface	56 NYE-PJMENoRE			-1475.1	-1287.0	-0.03929	0.00000	-1299.4	-1299.4
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		0.17684	-0.22216	-993.8	70.0
			10555	-4480.8	-273.4		L: Interface	51 G-PJMEast			-154.0	0.0	-0.03438	0.00000	-0.3	-0.3
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		0.15474	-0.22216	-993.8	1.6
			10556	-4480.8	-273.4		L: Interface	52 PJMEast-G			154.0	0.0	0.03438	0.00000	0.3	0.3
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		-0.15474	-0.22216	-993.8	1.6
			10565	-4193.6	-88.9		L: Interface	55 PJME-NYEnoRE			1487.8	1287.0	0.04789	0.00000	1299.4	1299.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.21507	-0.03203	40.8	175.1
		10566		-4193.6	-88.9		L: Interface	56 NYE-PJMENoRE		-1487.8	-1287.0	-0.04789		0.00000	-1299.4	-1299.4
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.21507	-0.03203	40.8	175.1
		10579		-3912.4	91.7		L: Interface	51 G-PJMEast		-124.9	0.0	-0.03191		0.00000	-0.3	-0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.14830	-0.03203	40.8	166.1
		10580		-3912.4	91.7		L: Interface	52 PJMEast-G		124.9	0.0	0.03191		0.00000	0.3	0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.14830	-0.03203	40.8	166.1
		10593		-3704.4	225.3		L: Interface	63 PJMW2C		513.2	0.0	0.13854		0.25346	353.6	-585.3
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.85100	-0.03072	37.4	151.2
		10594		-3704.4	225.3		L: Interface	62 C2PJMW		-513.2	0.0	-0.13854		-0.25346	-353.6	585.3
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			-0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			-0.85100	-0.03072	37.4	151.2
		10599		-3417.6	409.5		L: Interface	26 ONTARIO-MICH		758.6	0.0	0.22198		0.23984	733.8	-85.9
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.12796	-0.07681	116.1	378.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.13032	-0.03203	40.8	150.3
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.12541	-0.03072	37.4	142.4
		10600		-3289.2	492		L: Interface	26 ONTARIO-MICH		750.6	0.0	0.22819		0.23984	733.8	-55.1
								C:SER:ETH	607							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10716	-0.07681	116.1	368.7
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10657	-0.03203	40.8	146.2
		10601		-3288.8	492.2		L: Interface	26 ONTARIO-MICH		750.4	0.0	0.22818		0.23984	733.8	-55.0
								C:SER:C39	606							
								Open 409 GROVER	230 200675 E.TWANDA	230 1			0.00016	0.00121	-15.5	-19.5
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10740	-0.07681	116.1	368.7
								Open 381 TOWANDA	115 200675 E.TWANDA	230 1			0.00252	-0.00624	-52.6	-32.1
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10591	-0.03203	40.8	146.2
		10602		-3235.9	526.2		L: Interface	26 ONTARIO-MICH		746.7	0.0	0.23076		0.23984	733.8	-42.3
								C:ETHS/LL	650							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.08358	-0.07681	116.1	364.6
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.08640	-0.03072	37.4	136.8
		10603		-3230.3	529.8		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.23538		0.23984	733.8	-41.0
								C:W44LC1	643							
								Open 160062 LONGWOOD	220 160074 COWALJ44	220 1			-0.16058	0.02276	189.0	115.5
								Open 160074 COWALJ44	220 160134 BUCHJW44	220 1			0.16305	-0.00491	334.6	350.4
								Open 160054 BUCHANAN	220 160134 BUCHJW44	220 1			-0.00035	0.00491	-256.3	-272.2
								Open 160055 CHATHAM	220 160074 COWALJ44	220 1			0.71978	0.00000	3.1	3.1
		10604		-3230.1	530		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.23539		0.23984	733.8	-40.9
								C:W45LC1	644							
								Open 160062 LONGWOOD	220 160075 COWALJ45	220 1			-0.16052	0.02274	189.0	115.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon			PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 160075	COWALJ45	220	160135	BUCHJW45	220	1		0.16299	-0.00490	334.4	350.3
								Open 160054	BUCHANAN	220	160135	BUCHJW45	220	1		-0.00035	0.00490	-262.6	-278.4
								Open 160055	CHATHAM	220	160075	COWALJ45	220	1		0.71974	0.00000	3.1	3.1
			10605	-3215.2	539.5		L: Interface	26	ONTARIO-MICH							0.23984	733.8	-37.3	
							C:131128			392									
							Open 131128	LAPEER	345	136153	LAFAYTTE	345	1			-0.05454	0.00296	-675.2	-684.8
			10606	-3200.3	549.1		L: Interface	26	ONTARIO-MICH							0.23984	733.8	-33.8	
							C:LKWANA-			652									
							Open 417	OXBOW	230	3070	LACKAWNA	230	1			0.11942	-0.12699	-123.7	282.8
			10607	-3197.5	550.9		L: Interface	26	ONTARIO-MICH							0.23984	733.8	-33.1	
							C:130755			209									
							Open 130755	OAKDL345	345	131128	LAPEER	345	1			-0.06047	-0.01619	-599.0	-547.2
			10608	-3178.3	563.2	*	L: Interface	26	ONTARIO-MICH							0.23984	733.8	-28.5	
							C:KEY-SHE			651									
							Open 505	SHELOCTA	230	521	KEYSTONE	230	1			0.08780	-0.04571	48.1	193.3
							Open 473	BLAIRSVL	138	235253	01SOCIAL	138	1			0.08827	-0.00970	99.7	130.6
			12298	-2956.3	705.8		L: Interface	56	NYE-PJMENoRE							0.00000	-1299.4	-1299.4	
							C:BUS:WAT			633									
							Open 130757	WATRC345	345	200769	HOMER CY	345	1			0.44203	-0.11389	-547.8	-211.1
							Open 130757	WATRC345	345	130768	WATRC230	230	1			0.19985	-0.07197	264.1	476.8
							Open 130755	OAKDL345	345	130757	WATRC345	345	1			0.46005	0.00000	22.7	22.7
			12299	-2956.3	705.8		L: Interface	55	PJME-NYEnoRE							0.00000	1299.4	1299.4	
							C:BUS:WAT			633									
							Open 130757	WATRC345	345	200769	HOMER CY	345	1			-0.44203	-0.11389	-547.8	-211.1
							Open 130757	WATRC345	345	130768	WATRC230	230	1			-0.19985	-0.07197	264.1	476.8
							Open 130755	OAKDL345	345	130757	WATRC345	345	1			-0.46005	0.00000	22.7	22.7
			12339	-2729.4	851.6		L: Interface	51	G-PJMEast							0.00000	-0.3	-0.3	
							C:BUS:WAT			633									
							Open 130757	WATRC345	345	200769	HOMER CY	345	1			0.29477	-0.11389	-547.8	-237.0
							Open 130757	WATRC345	345	130768	WATRC230	230	1			0.13719	-0.07197	264.1	460.5
							Open 130755	OAKDL345	345	130757	WATRC345	345	1			0.30599	0.00000	22.7	22.7
			12340	-2729.4	851.6		L: Interface	52	PJMEast-G							0.00000	0.3	0.3	
							C:BUS:WAT			633									
							Open 130757	WATRC345	345	200769	HOMER CY	345	1			-0.29477	-0.11389	-547.8	-237.0
							Open 130757	WATRC345	345	130768	WATRC230	230	1			-0.13719	-0.07197	264.1	460.5
							Open 130755	OAKDL345	345	130757	WATRC345	345	1			-0.30599	0.00000	22.7	22.7
			12350	-2537.3	975		L: Interface	62	C2PJMW							-0.25346	-353.6	289.5	
							C:SER:ETH			607									
							Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.66732	-0.07681	116.1	310.9
							Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.67169	-0.03203	40.8	122.1
			12351	-2537.3	975		L: Interface	63	PJMW2C							0.25346	353.6	-289.5	
							C:SER:ETH			607									
							Open 130763	HILSD230	230	200675	E.TWANDA	230	1			0.66732	-0.07681	116.1	310.9
							Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			0.67169	-0.03203	40.8	122.1
			12352	-2533.4	977.5		L: Interface	62	C2PJMW							-0.25346	-353.6	288.5	
							C:SER:C39			606									
							Open 409	GROVER	230	200675	E.TWANDA	230	1			-0.00111	0.00121	-15.5	-18.6
							Open 130763	HILSD230	230	200675	E.TWANDA	230	1			-0.66891	-0.07681	116.1	310.7
							Open 381	TOWANDA	115	200675	E.TWANDA	230	1			-0.01713	-0.00624	-52.6	-36.8
							Open 130836	N.WAV115	115	200676	E.SAYRE	115	1			-0.66726	-0.03203	40.8	122.0
			12353	-2533.4	977.5		L: Interface	63	PJMW2C							0.25346	353.6	-288.5	
							C:SER:C39			606									
							Open 409	GROVER	230	200675	E.TWANDA	230	1			0.00111	0.00121	-15.5	-18.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open	130763 HILSD230 230 200675 E.TWANDA	230	1		0.66891	-0.07681	116.1	310.7
								Open	381 TOWANDA 115 200675 E.TWANDA	230	1		0.01713	-0.00624	-52.6	-36.8
								Open	130836 N.WAV115 115 200676 E.SAYRE	115	1		0.66726	-0.03203	40.8	122.0
			12364	-2244.8	1162.8		L: Interface	63 PJMW2C		437.0	0.0	0.19466		0.25346	353.6	-215.4
								C:ETHS/LL		650						
								Open	130763 HILSD230 230 200675 E.TWANDA	230	1		0.52482	-0.07681	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115	1		0.60169	-0.03072	37.4	106.3
			12365	-2244.8	1162.8		L: Interface	62 C2PJMW		-437.0	0.0	-0.19466		-0.25346	-353.6	215.4
								C:ETHS/LL		650						
								Open	130763 HILSD230 230 200675 E.TWANDA	230	1		-0.52482	-0.07681	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115	1		-0.60169	-0.03072	37.4	106.3
			12370	-2149.4	1224.1		L: Interface	55 PJME-NYEnoRE		1451.8	1287.0	0.07669		0.00000	1299.4	1299.4
								C:130753		200						
								Open	130753 FRASR345 345 130755 OAKDL345	345	1		-0.26930	-0.28478	-566.1	46.0
			12371	-2149.4	1224.1		L: Interface	56 NYE-PJMEEnoRE		-1451.8	-1287.0	-0.07669		0.00000	-1299.4	-1299.4
								C:130753		200						
								Open	130753 FRASR345 345 130755 OAKDL345	345	1		0.26930	-0.28478	-566.1	46.0
			12374	-2070.6	1274.7		L: Interface	63 PJMW2C		524.8	0.0	0.25346		0.25346	353.6	-171.2
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch				
			12375	-2070.6	1274.7		L: Interface	62 C2PJMW		-524.8	0.0	-0.25346		-0.25346	-353.6	171.2
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch				
			12376	-2063.5	1279.3		L: Interface	62 C2PJMW		-524.2	0.0	-0.25406		-0.25346	-353.6	169.4
								C:HQ-NY-7		777						
								Open	147827 MARCY765 765 147828 MASS 765	NA						
								Open	147828 MASS 765 765 180819 CHA-NY	NA						
								Open	147827 MARCY765 765 147833 MARCY T1	345	1		-0.04110	0.00782	624.3	608.1
								Open	147827 MARCY765 765 147833 MARCY T1	345	2		-0.04110	0.00680	543.3	529.3
								Open	156 MCY765SW 0.0 147827 MARCY765	NA						
								Open	147838 MASS230B 230 147839 MOSES E	230	1		0.00000	-0.00731	10.7	25.8
								Open	147828 MASS 765 765 147838 MASS230A	NA						
								Open	147837 MASS230A 230 147839 MOSES E	230	1		0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230A	NA						
								Open	158 MS765SW2 0.0 147828 MASS 765	NA						
								Open	157 MS765SW1 0.0 147828 MASS 765	NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			12377	-2063.5	1279.3		L: Interface	63 PJMW2C		524.2	0.0	0.25406		0.25346	353.6	-169.4
								C:HQ-NY-7		777						
								Open	147827 MARCY765 765 147828 MASS 765	NA						
								Open	147828 MASS 765 765 180819 CHA-NY	NA						
								Open	147827 MARCY765 765 147833 MARCY T1	345	1		0.04110	0.00782	624.3	608.1
								Open	147827 MARCY765 765 147833 MARCY T1	345	2		0.04110	0.00680	543.3	529.3
								Open	156 MCY765SW 0.0 147827 MARCY765	NA						
								Open	147838 MASS230B 230 147839 MOSES E	230	1		0.00000	-0.00731	10.7	25.8
								Open	147828 MASS 765 765 147838 MASS230A	NA						
								Open	147837 MASS230A 230 147839 MOSES E	230	1		-0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230A	NA						
								Open	158 MS765SW2 0.0 147828 MASS 765	NA						
								Open	157 MS765SW1 0.0 147828 MASS 765	NA						





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23835	-0.11389	-547.8	-589.6
									Open 135277 FALCONER 115 200579 WARREN 115 1				-0.06948	0.00066	-35.9	-35.6
			NA	369.5	2842.1	R	L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		-0.13956	194.3	142.7
							C:SER:HCW		608							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22548	-0.11389	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33373	-0.03203	40.8	29.0
			NA	369.5	2842.1	R	L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCW		608							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22548	-0.11389	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33373	-0.03203	40.8	29.0
			15924	369.5	2842.1		L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		-0.13956	194.3	142.7
							C:SER:HCW		608							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22548	-0.11389	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33373	-0.03203	40.8	29.0
			15925	369.5	2842.1		L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCW		608							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22548	-0.11389	-547.8	-589.9
									Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33373	-0.03203	40.8	29.0
			NA	384.7	2851.8	R	L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757		374							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23759	-0.11389	-547.8	-591.6
			15928	384.7	2851.8		L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757		374							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23759	-0.11389	-547.8	-591.6
			15929	384.7	2851.8		L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757		374							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23759	-0.11389	-547.8	-591.6
			NA	384.7	2851.8	R	L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757		374							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23759	-0.11389	-547.8	-591.6
			15930	394	2857.9		L: Interface 14 Leads-PV			2523.0	2662.0	0.35267				
							Base Case									
			NA	451.6	2894.8	R	L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WAT		633							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.14481	-0.11389	-547.8	-599.3
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.20651	-0.07197	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.14879	0.00000	22.7	22.7
			15933	451.6	2894.8		L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WAT		633							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.14481	-0.11389	-547.8	-599.3
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.20651	-0.07197	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.14879	0.00000	22.7	22.7
			NA	451.6	2894.8	R	L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WAT		633							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.14481	-0.11389	-547.8	-599.3
									Open 130757 WATRC345 345 130768 WATRC230 230 1				-0.20651	-0.07197	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				0.14879	0.00000	22.7	22.7
			15934	451.6	2894.8		L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WAT		633							
									Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.14481	-0.11389	-547.8	-599.3
									Open 130757 WATRC345 345 130768 WATRC230 230 1				0.20651	-0.07197	264.1	231.6
									Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.14879	0.00000	22.7	22.7
			15935	520.5	2939.1		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1241.5	-1331.0	-0.17197				

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							Base Case									
			15936	569.5	2970.6		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06243		0.03422	139.9	159.4
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22243	1116.0	1242.7
			15937	569.5	2970.6		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06243		0.03422	139.9	159.4
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22243	1116.0	1242.7
			15938	635.8	3013.2		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1578.2	-1725.0	-0.23087		-0.18071	-1281.5	-1396.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.32994	-0.15203	-899.1	-995.8
			NA	742.1	3081.4	R	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			NA	742.1	3081.4	R	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15939	742.1	3081.4	*	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15940	742.1	3081.4	*	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15941	772.3	3100.8		L: Interface 14 Leeds-PV			3102.0	3450.0	0.45057		0.35267	2523.0	2795.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				-0.64393	-0.15203	-899.1	-1016.6
			15944	893.7	3178.8		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:125002		10							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01700	1505.3	1490.1
			15945	893.7	3178.8		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01700	1505.3	1490.1
			15946	900	3182.9		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22243	1116.0	1316.2
			15947	900	3182.9		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22243	1116.0	1316.2
			15952	915.8	3193		L:126294 PLTVLLEY	345 137455 ATHENS	345 1	-1523.8	-1725.0	-0.21970		-0.17197	-1241.5	-1399.0
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.31399	-0.15203	-899.1	-1038.4
			15953	931.5	3203.1		L:146758 CHESTER	138 146771 SHOEM138	138 1	-260.5	-317.0	-0.06069		-0.03422	-175.4	-207.2
							C:125001		9							
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.19956	-0.13269	-426.4	-550.0
			15958	959.7	3221.2		L:130750 COOPC345	345 130753 FRASR345	345 1	-993.8	-1207.0	-0.22216				
							Base Case									
			15961	982.5	3235.8		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1472.9	-1725.0	-0.25658		-0.18071	-1281.5	-1459.1
							C:137451		6							
							Open 137451 LEEDS 3	345 137455 ATHENS	345 1				-0.44120	0.17197	433.7	602.7
			15976	1071.3	3292.9		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.36927	-0.01700	1505.3	1487.1
			15977	1071.3	3292.9		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:125002		10							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 130763	HILSD230 230 200675 E.TWANDA	230 1			-0.37659	-0.07681	116.1	9.9	
								Open 130836	N.WAV115 115 200676 E.SAYRE	115 1			-0.38829	-0.03203	40.8	-3.4	
								Open 130807	GOUDY115 115 200680 LAUREL L	115 1			-0.41611	-0.03072	37.4	-5.1	
			16351	1384	3493.7		L:130750	COOPC345	345 130753 FRASR345	345 1	-1314.3	-1703.0	-0.28085		-0.22216	-993.8	-1301.3
							C:130750			196							
								Open 130750	COOPC345 345 147833 MARCY T1	345 1			0.43311	-0.13551	-740.0	-927.6	
			19324	1427.3	3521.5		L:126294	PLTVLLEY	345 137455 ATHENS	345 1	-1425.5	-1725.0	-0.20985		-0.17197	-1241.5	-1486.9
							C:125000			1							
								Open 125000	HURLEY 3 345 125002 ROSETON	345 1			-0.27917	0.13569	659.1	852.8	
			19401	1494.6	3564.8		L:130750	COOPC345	345 146754 MDTN TAP	345 1	1349.4	1793.0	0.29678		0.18761	872.9	1153.3
							C:125001			8							
								Open 125001	ROCK TAV 345 130750 COOPC345	345 2			-0.64201	-0.17006	-742.3	-996.5	
			19432	1515.9	3578.5		L:146758	CHESTER	138 146773 SGRFL138	138 1	225.0	317.0	0.06069		0.03422	139.9	191.8
							C:125001			9							
								Open 125001	ROCK TAV 345 146754 MDTN TAP	345 1			-0.19956	-0.13269	-426.4	-627.6	
			NA	1516.2	3578.7	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14079		0.00000	452.2	452.2	
							C:SIN:120			668							
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 1			-0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 2			-0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126290 LADENTWN	345 1			-0.69167	0.23158	39.8	391.0	
								Open 126263	BUCHANAN S 345 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Remove unit 1	from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			NA	1516.2	3578.7	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14079		0.00000	452.2	452.2	
							C:SIN:130			669							
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 1			-0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 2			-0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126290 LADENTWN	345 1			-0.69167	0.23158	39.8	391.0	
								Open 126263	BUCHANAN S 345 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Remove unit 1	from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			NA	1516.2	3578.7	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2	
							C:SIN:130			669							
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 1			0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 2			0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126290 LADENTWN	345 1			0.69167	0.23158	39.8	391.0	
								Open 126263	BUCHANAN S 345 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Remove unit 1	from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			NA	1516.2	3578.7	R	L: Interface	54 NYE-PJME		-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2	
							C:SIN:120			668							
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 1			0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126291 MILLWOOD	345 2			0.06930	-0.13991	785.6	573.5	
								Open 126263	BUCHANAN S 345 126290 LADENTWN	345 1			0.69167	0.23158	39.8	391.0	
								Open 126263	BUCHANAN S 345 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Open 147798	IP#3 GEN 22.0 147832 IP3 345NA								
								Remove unit 1	from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			19445	1523.4	3583.3		L: Interface	14 Leeds-PV		2813.7	3450.0	0.41765		0.35267	2523.0	3060.3	
							C:130750			192							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19448	1526.3	3585.2		L:130817	Open 130750 COOPC345 345 130753 FRASR345 345 1	JENN 115 115 130819 KATEL115 115 1	-104.8	-159.0	-0.03551	-0.29251	-0.22216	-993.8	-1332.2
							C:130753	200								
			19475	1641	3658.8		L: Interface	32 F-To-G		3715.6	4643.0	0.56513	0.06258	-0.28478	-566.1	-1000.8
							Base Case									
			19488	1678.2	3682.7		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1383.2	-1725.0	-0.20365		-0.17197	-1241.5	-1530.1
							C:130750	192								
			19493	1728.9	3715.3		L:130750	COOPC345 345 130753 FRASR345 345 1		-1007.4	-1345.0	-0.19527	0.14263	-0.22216	-993.8	-1366.6
							C:130750	192								
			19494	1730.7	3716.4		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-553.8	-707.0	-0.08853	0.26903	-0.22216	-993.8	-1377.9
							C:125001	9								
			19495	1746.7	3726.7		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1290.2	-1793.0	-0.28783	0.25331	-0.13269	-426.4	-656.1
							C:130750	195								
			19498	1754.7	3731.9		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		98.8	173.0	0.04231	-0.62777	0.18761	872.9	1200.6
							C:147834	226								
			19499	1775.3	3745.1		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		44.9	143.0	0.05524	0.04986	0.27848	418.2	906.8
							C:130755	206								
			19500	1809.5	3767		L:130817	JENN 115 115 130851 SIDNT115 115 1		51.5	120.0	0.03787	-0.10626	-0.18586	-261.1	-591.1
							C:130753	200								
			19501	1810.5	3767.7		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-43.0	-143.0	-0.05524	-0.05892	-0.28478	-566.1	-1081.4
							C:130755	206								
			NA	1813.2	3769.4	R	L: Interface	23 QFW		893.1	0.0	-0.49258	0.10626	-0.18586	-261.1	-597.6
							C:GEN:KIN	776							1095.9	209.2
							Open 130754	KINTI345 345 130873 KINTIG24 24.0 1				0.00000	-0.00503	-288.3	-297.4	
							Open 130754	KINTI345 345 130873 KINTIG24 24.0 2				0.35118	-0.01007	-577.4	-595.7	
			19502	1813.2	3769.4		L: Interface	23 QFW		893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KIN	776								
							Open 130754	KINTI345 345 130873 KINTIG24 24.0 1				0.00000	-0.00503	-288.3	-297.4	
							Open 130754	KINTI345 345 130873 KINTIG24 24.0 2				0.35118	-0.01007	-577.4	-595.7	
			19503	1819	3773.2		L:130757	WATRC345 345 200769 HOMER CY 345 1		-547.8	-755.0	-0.11389				
							Base Case									
			19504	1819	3773.2		L: Interface	47 C-PJMWest		-547.8	-755.0	-0.11389				
							Base Case									
			19505	1819	3773.2		L: Interface	48 PJMWest-C		547.8	755.0	0.11389				
							Base Case									
			19506	1819	3773.2		L: Interface	60 C2PJMC		-547.8	-755.0	-0.11389				
							Base Case									
			19507	1819	3773.2		L: Interface	61 PJMC2C		547.8	755.0	0.11389				
							Base Case									
			19512	1850.1	3793.1		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		92.6	159.0	0.03591		0.02407	74.8	119.3
							C:147834	226								
			NA	1862.3	3801	R	L: Interface	23 QFW		910.7	0.0	-0.48904	0.04252	0.27848	418.2	933.4
							C:GEN:9 M	562							1095.9	185.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19513	1862.3	3801			Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
							L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 M		562							
			19514	1866	3803.3			Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
							L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-7		777							
							Open	147827 MARCY765 765 147828 MASS 74	NA							
							Open	147828 MASS 765 765 180819 CHA-NY	NA							
							Open	147827 MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00782	624.3	638.9	
							Open	147827 MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00680	543.3	556.0	
							Open	156 MCY765SW 0.0 147827 MARCY74	NA							
							Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	-2.9	
							Open	147828 MASS 765 765 147838 MASS230	NA							
							Open	147837 MASS230A 230 147839 MOSES E	230 1			-0.09628	0.00000	18.8	18.8	
							Open	147828 MASS 765 765 147837 MASS230	NA							
							Open	158 MS765SW2 0.0 147828 MASS 74	NA							
							Open	157 MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus	180001 BEA-DLX 13.8 generation by	100.0 percent dispatch							
							Set bus	181319 CHAT G3 120 load to	357.0 MW dispatch							
							Decrease bus	180002 BEA-DL 13.8 generation by	100.0 percent dispatch							
							Set bus	181419 CHAT G4 120 load to	357.0 MW dispatch							
			NA	1866	3803.3	R	L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-7		777							
							Open	147827 MARCY765 765 147828 MASS 74	NA							
							Open	147828 MASS 765 765 180819 CHA-NY	NA							
							Open	147827 MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00782	624.3	638.9	
							Open	147827 MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00680	543.3	556.0	
							Open	156 MCY765SW 0.0 147827 MARCY74	NA							
							Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	-2.9	
							Open	147828 MASS 765 765 147838 MASS230	NA							
							Open	147837 MASS230A 230 147839 MOSES E	230 1			-0.09628	0.00000	18.8	18.8	
							Open	147828 MASS 765 765 147837 MASS230	NA							
							Open	158 MS765SW2 0.0 147828 MASS 74	NA							
							Open	157 MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus	180001 BEA-DLX 13.8 generation by	100.0 percent dispatch							
							Set bus	181319 CHAT G3 120 load to	357.0 MW dispatch							
							Decrease bus	180002 BEA-DL 13.8 generation by	100.0 percent dispatch							
							Set bus	181419 CHAT G4 120 load to	357.0 MW dispatch							
			19515	1868.3	3804.9		L:125001	ROCK TAV 345 130750 COOPC345	345 2	-1261.0	-1793.0	-0.28477		-0.17006	-742.3	-1060.0
							C:SER:CMT		594							
							Open	130750 COOPC345 345 146754 MDTN TAP	345 1			-0.55571	0.18761	872.9	1223.4	
							Open	125001 ROCK TAV 345 146754 MDTN TAP	345 1			0.07882	-0.13269	-426.4	-674.3	
			19516	1902.5	3826.8		L:126294	PLTVLLEY 345 137451 LEEDS 3	345 2	-1353.5	-1725.0	-0.19525		-0.18071	-1281.5	-1625.3
							C:SER:CMT		594							
							Open	130750 COOPC345 345 146754 MDTN TAP	345 1			-0.09359	0.18761	872.9	1229.8	
							Open	125001 ROCK TAV 345 146754 MDTN TAP	345 1			-0.02274	-0.13269	-426.4	-678.9	
			19517	1912.8	3833.4		L:126294	PLTVLLEY 345 137451 LEEDS 3	345 2	-1354.0	-1725.0	-0.19397		-0.18071	-1281.5	-1627.2
							C:130750		196							
							Open	130750 COOPC345 345 147833 MARCY T1	345 1			0.09788	-0.13551	-740.0	-999.2	
			19520	1924.2	3840.7		L: Interface	23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9
							C:GEN:GIN		563							
							Remove unit 1 from bus 149140 GINNA 19	19.0 605.0 MW dispatch								
			NA	1924.2	3840.7	R	L: Interface	23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:GEN:GIN	563								
							Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW dispatch							
			19521	1940.2	3851		L:135872 SOUR-111	115 135873 SWDN-111	115 1	89.3	159.0	0.03591		0.02407	71.5	118.2
							C:147834	226								
			19522	1954.6	3860.3	*	Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.04252	0.27848	418.2	958.5
							L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1345.1	-1725.0	-0.19436		-0.18071	-1281.5	-1634.8
							C:130750	195								
			19523	1977.2	3874.8		Open 130750 COOPC345	345 146754 MDTN TAP	345 1				-0.07280	0.18761	872.9	1239.6
							L: Interface 23 QFW			966.9	0.0	-0.48904		-0.48904	1095.9	129.0
							C:GEN:SEA	574								
			NA	1977.2	3874.8	R	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch							
							L: Interface 23 QFW			966.9	0.0	-0.48904		-0.48904	1095.9	129.0
							C:GEN:SEA	576								
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00003	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch							
			19528	1988.6	3882.1		L:130819 KATEL115	115 130838 OAKDL115	115 1	-121.4	-192.0	-0.03551		-0.01769	-86.0	-121.1
							C:130753	200								
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.06258	-0.28478	-566.1	-1132.4
			19529	1993.1	3885		L:130753 FRASR345	345 130755 OAKDL345	345 1	-762.3	-1380.0	-0.30993		-0.28478	-566.1	-1133.7
							C:130753	202								
							Open 130753 FRASR345	345 137200 EDIC	345 1				0.27552	-0.09129	-712.0	-893.9
			19533	2016.6	3900.1		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	99.5	173.0	0.03645		0.02843	77.9	135.2
							C:130754	205								
							Open 130754 KINFI345	345 149000 ROCH 345	345 1				0.04136	0.19408	521.8	913.1
			NA	2023.1	3904.3	R	L:125015 AC CBLTP	115 125041 N.CHELSE	115 1	319.0	240.0	-0.03903		-0.01988	162.2	122.0
							C:125021	29								
							Open 125021 DC CBLTP	115 125041 N.CHELSE	115 1				0.92978	-0.02060	168.6	126.9
			NA	2028.7	3907.8	R	L:125015 AC CBLTP	115 125041 N.CHELSE	115 1	319.2	240.0	-0.03903		-0.01988	162.2	121.9
							C:125020	25								
							Open 125020 DANSKAMA	115 125021 DC CBLTP	115 1				0.92978	-0.02060	168.8	127.0
			19544	2061.2	3928.7		L:137451 LEEDS 3	345 137453 N.SCOT99	345 2	-1214.4	-1724.0	-0.24721		-0.17398	-860.4	-1219.0
							C:BUS:N.S	615								
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.60778	-0.04334	-242.4	-331.7
							Open 137452 N.SCOT77	345 137516 N.SCOT1	115 1				0.40442	0.00032	113.3	114.0
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.33527	0.17278	820.4	1176.6
							Open 137450 ALPS345	345 137452 N.SCOT77	345 1				-0.26700	-0.04086	-84.4	-168.7
							Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1				0.20564	0.00000	0.0	0.0
			19545	2063.9	3930.5		L: Interface 14 Leeds-PV			2663.5	3450.0	0.38105		0.35267	2523.0	3250.9
							C:SER:CMT	594								
							Open 130750 COOPC345	345 146754 MDTN TAP	345 1				0.18265	0.18761	872.9	1260.1
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.04437	-0.13269	-426.4	-700.3
			19549	2075.3	3937.8		L: Interface 14 Leeds-PV			2664.4	3450.0	0.37856		0.35267	2523.0	3254.9
							C:130750	196								
							Open 130750 COOPC345	345 147833 MARCY T1	345 1				-0.19102	-0.13551	-740.0	-1021.2
			19550	2082.3	3942.3		L:130757 WATRC345	345 130768 WATRC230	230 1	459.8	600.0	0.06734		-0.07197	264.1	114.2
							C:130755	206								
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.74954	-0.18586	-261.1	-648.1
			19551	2084.9	3944		L:135862 MUMFORD1	115 135866 NLEROYTA	115 1	-83.3	-173.0	-0.04302		-0.02891	-62.1	-122.4
							C:147834	226								
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.05070	0.27848	418.2	998.8
			19556	2113.3	3962.2		L:130750 COOPC345	345 130753 FRASR345	345 1	-1076.8	-1703.0	-0.29630		-0.22216	-993.8	-1463.3
							C:130753	203								
							Open 130753 FRASR345	345 147831 GILB 345	345 1				-0.39407	0.18814	210.7	608.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19557	2116.4	3964.2		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	445.8	562.0	0.05492				
							Base Case									
			19558	2116.8	3964.4		L: Interface 14 Leeds-PV			2647.1	3450.0	0.37933		0.35267	2523.0	3269.6
							C:130750		195							
							Open 130750 COOPC345		345 146754 MDTN TAP 345 1				0.14209	0.18761	872.9	1270.0
			NA	2125.7	3970.2	R	L: Interface 54 NYE-PJME			-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				0.60931	0.23158	-1041.8	-549.5
			NA	2125.7	3970.2	R	L: Interface 53 PJME-NYE			1087.0	787.0	-0.14111		0.00000	452.2	452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				-0.60931	0.23158	-1041.8	-549.5
			NA	2126.8	3970.9	R	L: Interface 53 PJME-NYE			1085.6	787.0	-0.14041		0.00000	452.2	452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				-0.62193	0.22576	-1018.5	-538.3
			NA	2126.8	3970.9	R	L: Interface 54 NYE-PJME			-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				0.62193	0.22576	-1018.5	-538.3
			19566	2128.9	3972.2		L:135452 LOCKPORT		115 135872 SOUR-111 115 1	93.2	159.0	0.03092		0.02407	74.8	126.0
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.03527	0.19408	521.8	934.9
			19573	2139.1	3978.7		L:135452 LOCKPORT		115 135876 TELRDTP1 115 1	103.6	180.0	0.03571		0.02393	85.9	137.1
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04231	0.27848	418.2	1013.9
			19585	2171.2	3999.4		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	553.8	746.0	0.08853		0.05492	445.8	565.0
							C:125001		9							
							Open 125001 ROCK TAV		345 146754 MDTN TAP 345 1				-0.25331	-0.13269	-426.4	-714.5
			19586	2171.9	3999.9		L: Interface 14 Leeds-PV			2627.6	3450.0	0.37867		0.35267	2523.0	3289.0
							C:SER:PV		598							
							Open 103105 LONG MTN		345 103117 CTNY398 345 1				0.33670	0.07721	310.6	478.3
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				-0.23705	0.00000	0.2	0.2
			19587	2172	3999.9	*	L: Interface 14 Leeds-PV			2627.5	3450.0	0.37867		0.35267	2523.0	3289.0
							C:103117		362							
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				0.33670	0.07721	310.4	478.1
			19607	2205.9	4021.7		L:135850 SOUR-114		115 135861 MORTIMER 115 1	70.5	153.0	0.03738		0.02506	52.0	107.3
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04425	0.27848	418.2	1032.5
			19690	2233.5	4039.4		L:135872 SOUR-111		115 135873 SWDN-111 115 1	89.9	159.0	0.03092		0.02407	71.5	125.3
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.03527	0.19408	521.8	955.2
			19691	2233.5	4039.4		L:126294 PLTVLLEY		345 137455 ATHENS 345 1	-1310.0	-1725.0	-0.18580		-0.17197	-1241.5	-1625.6
							C:SER:CMT		594							
							Open 130750 COOPC345		345 146754 MDTN TAP 345 1				-0.08906	0.18761	872.9	1291.9
							Open 125001 ROCK TAV		345 146754 MDTN TAP 345 1				-0.02164	-0.13269	-426.4	-722.8
			21081	2246	4047.4		L:126294 PLTVLLEY		345 137455 ATHENS 345 1	-1310.4	-1725.0	-0.18459		-0.17197	-1241.5	-1627.7
							C:130750		196							
							Open 130750 COOPC345		345 147833 MARCY T1 345 1				0.09314	-0.13551	-740.0	-1044.4
			21170	2250.5	4050.3		L:130764 MEYER230		230 131122 WTHRS230 230 1	-242.2	-430.0	-0.08347				
							Base Case									
			21209	2254.7	4053.1		L:130836 N.WAV115		115 131018 LOUNSI115 115 1	48.5	173.0	0.05524		0.03549	20.7	100.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755								
								Open 130755	OAKDL345 345 130757 WATRC345	345 1			-0.10626	-0.18586	-261.1	-680.2
			21251	2259.1	4055.9		L:130750	COOPC345	345 130753 FRASR345 345 1	-1143.6	-1703.0	-0.24764		-0.22216	-993.8	-1495.7
								C:137451								
								Open 137451	LEEDS 3 345 147831 GILB 345	345 1			0.16356	-0.15578	-915.6	-1267.5
			21260	2262.2	4057.8		L:135452	LOCKPORT	115 135851 SHEL-113 115 1	97.8	180.0	0.03633		0.02435	79.8	134.9
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			0.04302	0.27848	418.2	1048.2
			21290	2276.5	4067		L:137453	N.SCOT99	345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:160								
								Open 137200	EDIC 345 137452 N.SCOT77	345 1			-0.35320	0.17278	820.4	1213.8
								Open 137228	INGMS-CD 115 137886 INGHAM-E	115 1			-0.19917	0.00000	119.9	119.9
								Open 137235	PORTER 1 115 137246 VALLEY	115 1			-0.00023	-0.00033	74.9	74.2
			21291	2276.5	4067		L:137453	N.SCOT99	345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:150								
								Open 137200	EDIC 345 137452 N.SCOT77	345 1			-0.35320	0.17278	820.4	1213.8
								Open 137228	INGMS-CD 115 137886 INGHAM-E	115 1			-0.19919	0.00000	119.9	119.9
								Open 137235	PORTER 1 115 147905 ILION	115 1			-0.00016	-0.00021	88.8	88.3
			21304	2287.1	4073.9		L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1302.0	-1725.0	-0.18496		-0.17197	-1241.5	-1634.8
								C:130750								
								Open 130750	COOPC345 345 146754 MDTN TAP	345 1			-0.06928	0.18761	872.9	1301.9
			21305	2287.5	4074.1		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35766				
								Base Case								
			21306	2287.9	4074.3		L:130815	HINMN115	115 135452 LOCKPORT 115 1	191.4	280.0	0.03872		0.02477	170.5	227.1
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			0.05011	0.27848	418.2	1055.3
			21327	2317.9	4093.6		L:146758	CHESTER	138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:125002								
								Open 125002	ROSETON 345 126281 FISHKILL	345 1			-0.04251	-0.01700	1505.3	1465.9
			21328	2317.9	4093.6		L:146758	CHESTER	138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:SIN:430								
								Open 125002	ROSETON 345 126281 FISHKILL	345 1			-0.04251	-0.01700	1505.3	1465.9
			21331	2322.8	4096.8		L:130794	DELHI115	115 130851 SIDNT115 115 1	-33.5	-120.0	-0.03724		-0.02058	-0.4	-48.2
								C:130753								
								Open 130753	FRASR345 345 130755 OAKDL345	345 1			0.05851	-0.28478	-566.1	-1227.6
			21336	2327.8	4100		L:130815	HINMN115	115 131611 HARS115 115 1	-218.3	-306.0	-0.03766		-0.02411	-198.0	-254.1
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			-0.04868	0.27848	418.2	1066.4
			21349	2342.6	4109.5	*	L:126294	PLTVLLEY	345 137455 ATHENS 345 1	-1292.5	-1725.0	-0.18464		-0.17197	-1241.5	-1644.3
								C:SER:PV								
								Open 103105	LONG MTN 345 103117 CTNY398	345 1			-0.16418	0.07721	310.6	491.5
								Open 103117	CTNY398 345 126294 PLTVLLEY	345 1			0.11559	0.00000	0.2	0.2
			21356	2347.9	4112.9		L:137451	LEEDS 3	345 137452 N.SCOT77 345 1	-1185.3	-1724.0	-0.22943		-0.17495	-865.1	-1275.8
								C:137451								
								Open 137451	LEEDS 3 345 147831 GILB 345	345 1			0.34978	-0.15578	-915.6	-1281.4
			21381	2376.2	4131		L:130770	SHLDN230	230 131122 WTHRS230 230 1	231.9	430.0	0.08335				
								Base Case								
			21383	2377.5	4131.9		L:137451	LEEDS 3	345 137453 N.SCOT99 345 2	-1180.8	-1724.0	-0.22849		-0.17398	-860.4	-1274.1
								C:137451								
								Open 137451	LEEDS 3 345 147831 GILB 345	345 1			0.34988	-0.15578	-915.6	-1286.0
			21388	2379.4	4133.1		L:130764	MEYER230	230 131122 WTHRS230 230 1	-306.1	-540.0	-0.09831		-0.08347	-242.2	-440.8
								C:SER:HCV								
								Open 130757	WATRC345 345 200769 HOMER CY	345 1			0.11956	-0.11389	-547.8	-818.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21409	2399.9	4146.3		L:135862	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		0.03820	-0.03203	40.8	-35.4
								MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.03707		-0.02891	-62.1	-131.5
								C:130754 205								
			21416	2405	4149.6		L:130764	Open 130754 KINTI345 345 149000 ROCH 345 345 1		345	1		-0.04206	0.19408	521.8	987.5
								MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.09693		-0.08347	-242.2	-442.9
								C:130757 374								
			21419	2410.4	4153		L:137453	Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		0.11817	-0.11389	-547.8	-821.7
								N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24517		-0.18542	-917.3	-1364.2
								C:137200 946								
			21428	2419.1	4158.6		L:130753	Open 137200 EDIC 345 137452 N.SCOT77 345 1		345	1		-0.34584	0.17278	820.4	1236.9
								FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.28478				
								Base Case								
			21445	2428.6	4164.7		L:130764	Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		0.11759	-0.11389	-547.8	-824.4
								MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.09690		-0.08347	-242.2	-444.9
								C:SER:HC- 602								
			21495	2441.4	4173		L:137200	Open 135277 FALCONER 115 200579 WARREN 115 1		115	1		-0.05270	0.00066	-35.9	-34.2
								EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:170 672								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00024	-0.00033	74.9	74.1
			21496	2441.4	4173		L:137200	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:180 673								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00016	-0.00021	88.8	88.3
			22758	2455.9	4182.2		L:130753	Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00016	-0.00021	88.8	88.3
								FRASR345 345 130755 OAKDL345 345 1		-645.1	-1380.0	-0.29924		-0.28478	-566.1	-1265.5
								C:130750 196								
			22953	2464.7	4187.9		L:135452	Open 130750 COOPC345 345 147833 MARCY T1 345 1		345	1		0.10675	-0.13551	-740.0	-1072.8
								LOCKPORT 115 135876 TELRDTF1 115 1		104.2	180.0	0.03074		0.02393	85.9	144.9
								C:130754 205								
			23032	2486.2	4201.7		L:130770	Open 130754 KINTI345 345 149000 ROCH 345 345 1		345	1		0.03510	0.19408	521.8	1000.1
								SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.09819		0.08335	231.9	439.2
								C:SER:HCV 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		-0.11956	-0.11389	-547.8	-831.0
			23034	2486.7	4202		L:130753	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		-0.03820	-0.03203	40.8	-38.8
								FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:180 673								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00061	-0.00021	88.8	88.3
			23035	2486.7	4202		L:130753	Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00061	-0.00021	88.8	88.3
								FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:170 672								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		-0.04710	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00092	-0.00033	74.9	74.1
			23059	2503.1	4212.6		L:130753	Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00092	-0.00033	74.9	74.1
								FRASR345 345 130755 OAKDL345 345 1		-667.2	-1380.0	-0.28478		-0.28478	-566.1	-1278.9
								C:SIN:250 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			23065	2507.5	4215.4		L:130767	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		-0.03820	-0.03203	40.8	-38.8
								STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.08323				
								Base Case								
			23071	2513.4	4219.2		L:130770	Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09681		0.08335	231.9	441.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130757	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.11817	-0.11389	-547.8	-834.1
			23072	2513.4	4219.2		L:130753	FRASR345	345 130755 OAKDL345	345 1	-631.2	-1380.0	-0.29793	-0.28478	-566.1	-1281.9
								C:137453	12							
								Open 137453 N.SCOT99	345 147833 MARCY T1	345 1			0.07093	-0.18542	-917.3	-1383.3
			23094	2528.5	4228.9		L:130753	FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.29692	-0.28478	-566.1	-1286.2
								C:SIN:150	670							
								Open 137200 EDIC	345 137452 N.SCOT77	345 1			-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1			-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1	115 147905 ILION	115 1			0.00061	-0.00021	88.8	88.3
			23095	2528.5	4228.9		L:130753	FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.29692	-0.28478	-566.1	-1286.2
								C:SIN:160	671							
								Open 137200 EDIC	345 137452 N.SCOT77	345 1			-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1			-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1	115 137246 VALLEY	115 1			0.00092	-0.00033	74.9	74.1
			23097	2529.8	4229.7		L:131018	LOUNGS115	115 131850 CNYOG115	115 1	14.5	143.0	0.05078	0.03549	17.2	107.0
								C:BUS:WAT	633							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.05666	-0.11389	-547.8	-835.9
								Open 130757 WATRC345	345 130768 WATRC230	230 1			-0.12284	-0.07197	264.1	82.0
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			-0.05531	0.00000	22.7	22.7
			23100	2531.9	4231.1		L:146758	CHESTER	138 146771 SHOEM138	138 1	-175.4	-262.0	-0.03422			
								Base Case								
			23101	2532.1	4231.2		L:135851	SHEL-113	115 135874 SWDN-113	115 1	88.0	180.0	0.03634	0.02436	70.0	131.7
								C:147834	226							
								Open 147834 NIAG 345	345 149000 ROCH 345	345 1			0.04303	0.27848	418.2	1123.3
			23105	2535.2	4233.2		L:146771	SHOEM138	138 146772 SHOEMTAP	138 1	-445.8	-585.0	-0.05492			
								Base Case								
			23107	2537	4234.3		L:130770	SHLDN230	230 131122 WTHRS230	230 1	294.5	540.0	0.09678	0.08335	231.9	443.4
								C:SER:HC-	602							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.11759	-0.11389	-547.8	-836.8
								Open 135277 FALCONER	115 200579 WARREN	115 1			0.05270	0.00066	-35.9	-34.2
			23109	2538.2	4235.1		L:130753	FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.28478	-0.28478	-566.1	-1288.9
								C:GEN:SEA	576							
								Open 100508 SANDB115	115 100509 SB RCTOR	115 2			0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			23110	2538.2	4235.1*		L:130753	FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.28478	-0.28478	-566.1	-1288.9
								C:GEN:SEA	574							
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			23112	2542.1	4237.7		L:135850	SOUR-114	115 135861 MORTIMER	115 1	71.2	153.0	0.03218	0.02506	52.0	115.7
								C:130754	205							
								Open 130754 KINTI345	345 149000 ROCH 345	345 1			0.03670	0.19408	521.8	1015.1
			23133	2553.8	4245.1		L:130807	GOUDY115	115 130848 S.OWE115	115 1	-1.9	-143.0	-0.05524	-0.03549	25.8	-64.8
								C:130755	206							
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.10626	-0.18586	-261.1	-735.8
			23135	2554.7	4245.7		L:135850	SOUR-114	115 135876 TELRDTP1	115 1	-84.5	-180.0	-0.03738	-0.02506	-66.0	-130.0
								C:147834	226							
								Open 147834 NIAG 345	345 149000 ROCH 345	345 1			-0.04425	0.27848	418.2	1129.6
			23137	2555	4245.9		L:131018	LOUNGS115	115 131850 CNYOG115	115 1	-13.2	143.0	0.06113	0.03549	17.2	107.9
								C:BUS:WAT	634							
								Open 130768 WATRC230	230 130772 SHRED230	230 1			0.24197	0.05180	73.0	205.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			-0.18210	-0.07197	264.1	80.2
								Open 130763 HILSD230	230 130768 WATRC230	230 1			0.12851	0.00000	0.5	0.5
			23141	2558.3	4248.1		L:130750	COOPC345	345 130753 FRASR345	345 1	-1092.1	-1703.0	-0.23878	-0.22216	-993.8	-1562.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:125000								
								Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1			0.10935	-0.15203	-899.1	-1288.1
			23143	2562.4	4250.7		L:135858	GOLAH115	115 135862 MUMFORD1 115 1	-62.8	-173.0	-0.04302		-0.02891	-41.6	-115.6
								C:147834								
								Open 147834 NIAG 345	345 149000 ROCH 345	345 1			-0.05070	0.27848	418.2	1131.8
			23151	2568	4254.3		L:130848	S.OWE115	115 131850 CNYOG115 115 1	-12.6	-143.0	-0.05078		-0.03549	-15.2	-106.4
								C:BUS:WAT								
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.05666	-0.11389	-547.8	-840.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			0.12284	-0.07197	264.1	79.3
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.05531	0.00000	22.7	22.7
			23156	2572.4	4257.1		L:130750	COOPC345	345 130753 FRASR345 345 1	-1094.9	-1703.0	-0.23641		-0.22216	-993.8	-1565.3
								C:126294								
								Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2			0.07887	-0.18071	-1281.5	-1746.4
			23159	2573.2	4257.6		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07341		0.00000	-452.2	-452.2
								C:130753								
								Open 130753 FRASR345	345 130755 OAKDL345	345 1			0.25776	-0.28478	-566.1	-1298.9
			23160	2573.2	4257.6		L: Interface	53 PJME-NYE		598.1	787.0	0.07341		0.00000	452.2	452.2
								C:130753								
								Open 130753 FRASR345	345 130755 OAKDL345	345 1			-0.25776	-0.28478	-566.1	-1298.9
			23172	2580.6	4262.3		L:147834	NIAG 345	345 149000 ROCH 345 345 1	697.9	1685.0	0.38252		0.27848	418.2	1136.8
								C:130754								
								Open 130754 KINTI345	345 149000 ROCH 345	345 1			0.53609	0.19408	521.8	1022.6
			23173	2581.1	4262.7		L:137200	EDIC	345 137452 N.SCOT77 345 1	1121.1	1724.0	0.23357		0.17278	820.4	1266.4
								C:137453								
								Open 137453 N.SCOT99	345 147833 MARCY T1	345 1			-0.32782	-0.18542	-917.3	-1395.9
			23178	2586.8	4266.3		L:130848	S.OWE115	115 131850 CNYOG115 115 1	15.1	-143.0	-0.06113		-0.03549	-15.2	-107.0
								C:BUS:WAT								
								Open 130768 WATRC230	230 130772 SHRED230	230 1			-0.24197	0.05180	73.0	207.0
								Open 130757 WATRC345	345 130768 WATRC230	230 1			0.18210	-0.07197	264.1	77.9
								Open 130763 HILSD230	230 130768 WATRC230	230 1			-0.12851	0.00000	0.5	0.5
			23186	2594.1	4271		L:130764	MEYER230	230 131122 WTHRS230 230 1	-272.0	-540.0	-0.10332		-0.08347	-242.2	-458.7
								C:147834								
								Open 147834 NIAG 345	345 149000 ROCH 345	345 1			-0.07130	0.27848	418.2	1140.6
			23195	2597.7	4273.4		L:130767	STOLE230	230 130770 SHLDN230 230 1	285.3	540.0	0.09806		0.08323	221.3	437.5
								C:SER:HCW								
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.11956	-0.11389	-547.8	-843.7
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.03820	-0.03203	40.8	-42.4
			23210	2605.3	4278.3		L:130750	COOPC345	345 130753 FRASR345 345 1	-1089.6	-1703.0	-0.23543		-0.22216	-993.8	-1572.6
								C:126294								
								Open 126294 PLTVLLEY	345 137455 ATHENS	345 1			0.07718	-0.17197	-1241.5	-1689.5
			23215	2606.1	4278.7		L:135861	MORTIMER	115 135873 SWDN-111 115 1	-54.0	-153.0	-0.03800		-0.02548	-35.1	-101.5
								C:147834								
								Open 147834 NIAG 345	345 149000 ROCH 345	345 1			-0.04499	0.27848	418.2	1143.9
			23221	2607.6	4279.7		L:135452	LOCKPORT	115 135851 SHEL-113 115 1	98.4	180.0	0.03128		0.02435	79.8	143.3
								C:130754								
								Open 130754 KINTI345	345 149000 ROCH 345	345 1			0.03569	0.19408	521.8	1027.8
			23462	2626.6	4291.9		L:130767	STOLE230	230 130770 SHLDN230 230 1	286.1	540.0	0.09668		0.08323	221.3	439.9
								C:130757								
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.11817	-0.11389	-547.8	-847.0
			24698	2637.5	4298.9		L:131018	LOUN115	115 131850 CNYOG115 115 1	47.3	143.0	0.03630		0.03549	17.2	110.8
								C:130755								
								Open 130755 OAKDL345	345 131128 LAPEER	345 1			-0.05020	-0.01619	-599.0	-641.7
			24703	2638.1	4299.3		L:137200	EDIC	345 137452 N.SCOT77 345 1	1117.8	1724.0	0.22977		0.17278	820.4	1276.2



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24842	2685.7	4329.9		L:130815	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	195.3	280.0	0.03152	0.15025	0.05180	66.2	204.9
							C:130766	HINMN115 115 135452 LOCKPORT 115 1	224						170.5	237.0
			24847	2687.4	4331		L:135859	Open 130766	ROBIN230 230 130767 STOLE230 230 1	87.4	173.0	0.03184	0.26884	0.02512	92.6	160.0
							C:130770	LAPPINS1 115 135866 NLEROYTA 115 1	228						77.9	154.3
			24851	2691.1	4333.3		L:130848	Open 130770	SHLDN230 230 131122 WTHRS230 230 1	-45.3	-143.0	-0.03630	0.04101	0.08335	231.9	455.9
							C:130755	S.OWE115 115 131850 CNYOG115 115 1	209						-15.2	-110.7
			24856	2694.6	4335.6		L:135859	Open 130755	OAKDL345 345 131128 LAPEER 345 1	75.9	173.0	0.03604	0.05020	-0.01619	-599.0	-642.6
							C:130754	LAPPINS1 115 135866 NLEROYTA 115 1	204						77.9	154.5
			24858	2696	4336.5		L:130770	Open 130754	KINTI345 345 147834 NIAG 345 345 1	261.8	540.0	0.10321	-0.04136	-0.18401	48.6	-447.2
							C:147834	SHLDN230 230 131122 WTHRS230 230 1	226						231.9	456.7
			24861	2699.1	4338.5		L:130848	Open 147834	NIAG 345 345 149000 ROCH 345 345 1	-26.2	-143.0	-0.04327	0.07130	0.27848	418.2	1168.9
							C:130768	S.OWE115 115 131850 CNYOG115 115 1	227						-15.2	-111.0
			24868	2701.6	4340.1		L:135859	Open 130768	WATRC230 230 130772 SHRED230 230 1	87.0	173.0	0.03184	-0.15025	0.05180	73.0	212.8
							C:130767	LAPPINS1 115 135866 NLEROYTA 115 1	226						77.9	154.7
			24881	2704.7	4342.1		L:137451	Open 130767	STOLE230 230 130770 SHLDN230 230 1	-860.4	-1331.0	-0.17398	0.04101	0.08323	221.3	446.2
							Base Case	LEEDS 3 345 137453 N.SCOT99 345 2								
			24895	2715	4348.7		L:130848	S.OWE115 115 131850 CNYOG115 115 1	-25.5	-143.0	-0.04327	-0.03549	-0.03549	-15.2	-111.6	
							C:SER:OAK	595								
							Open 130768	WATRC230 230 130772 SHRED230 230 1				-0.15025	0.05180	73.0	213.6	
							Open 130765	OAKDL230 230 130772 SHRED230 NA								
			24904	2721.7	4353		L:130848	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	-25.2	-143.0	-0.04327	0.10159	0.00000	6.8	6.8
							C:130765	S.OWE115 115 131850 CNYOG115 115 1	222						-15.2	-111.8
			24906	2722.2	4353.3		L:130815	Open 130765	OAKDL230 230 130772 SHRED230 230 1	-219.0	-306.0	-0.03194	0.15025	-0.05180	-66.5	-207.5
							C:130754	HINMN115 115 131611 HARIS115 115 1	205						-198.0	-263.6
			24907	2722.3	4353.4		L:131018	Open 130754	KINTI345 345 149000 ROCH 345 345 1	-20.9	143.0	0.06019	-0.04038	0.19408	521.8	1050.1
							C:130763	LOUNS115 115 131850 CNYOG115 115 1	219						17.2	113.8
			24908	2722.6	4353.6		L:130848	Open 130763	HILSD230 230 130768 WATRC230 230 1	-25.2	-143.0	-0.04327	0.19958	0.12377	-190.6	146.3
							C:130765	S.OWE115 115 131850 CNYOG115 115 1	223						-15.2	-111.9
			24909	2723.6	4354.2		L:130750	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	-1060.5	-1703.0	-0.23589	-0.15025	0.05180	66.2	207.3
							C:125000	COOPC345 345 130753 FRASR345 345 1	1						-993.8	-1598.9
			24917	2726.5	4356.1		L:130848	Open 125000	HURLEY 3 345 125002 ROSETON 345 1	-15.2	-112.0	-0.03549	-0.10122	0.13569	659.1	1028.7
							Base Case	S.OWE115 115 131850 CNYOG115 115 1								
			24926	2734.1	4361		L:130815	HINMN115 115 131611 HARIS115 115 1	-222.2	-306.0	-0.03067	-0.02411	-0.02411	-198.0	-263.9	
							C:130766	224								
			24927	2735.4	4361.8		L:130753	Open 130766	ROBIN230 230 130767 STOLE230 230 1	-888.0	-1380.0	-0.17986	-0.26115	0.02512	92.6	161.3
							C:130753	FRASR345 345 137200 EDIC 345 1	200						-712.0	-961.7
			24932	2738.7	4363.9		L:137451	Open 130753	FRASR345 345 130755 OAKDL345 345 1	-1313.8	-1912.0	-0.21844	0.31098	-0.28478	-566.1	-1345.1
							Base Case	LEEDS 3 345 147831 GILB 345 345 1							-915.6	-1342.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:BUS:N.S	616								
							Open 137453 N.SCOT99	345 147831 GILB 345	345 1				0.62610	-0.03236	-307.4	-396.0
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				0.16119	-0.18542	-917.3	-1425.1
							Open 137453 N.SCOT99	345 137516 N.SCOT1	115 1				0.03268	0.00046	120.3	121.5
							Open 137451 LEEDS 3	345 137453 N.SCOT99	345 2				0.07200	-0.17398	-860.4	-1336.9
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.10447	0.00000	1.6	1.6
			24947	2754.6	4374.1		L:130848 S.OWE115	115 131850 CNYOG115	115 1	22.8	-143.0	-0.06019		-0.03549	-15.2	-113.0
							C:130763	219								
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.19958	0.12377	-190.6	150.3
			24962	2761.1	4378.3		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
							C:SIN:430	683								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01700	1505.3	1458.4
			24963	2761.1	4378.3		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
							C:125002	10								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01700	1505.3	1458.4
			25029	2793.9	4399.4		L:130815 HINMN115	115 135452 LOCKPORT	115 1	191.0	280.0	0.03185		0.02477	170.5	239.7
							C:130764	221								
							Open 130764 MEYER230	230 131122 WTHRS230	230 1				-0.08488	-0.08347	-242.2	-475.4
			25088	2802.4	4404.8		L:130767 STOLE230	230 130770 SHLDN230	230 1	251.1	540.0	0.10308		0.08323	221.3	454.5
							C:147834	226								
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.07130	0.27848	418.2	1198.6
			25092	2803	4405.2		L:130750 COOPC345	345 130753 FRASR345	345 1	-1047.7	-1703.0	-0.23379		-0.22216	-993.8	-1616.5
							C:BUS:N.S	615								
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.03869	-0.04334	-242.4	-363.9
							Open 137452 N.SCOT77	345 137516 N.SCOT1	115 1				0.01601	0.00032	113.3	114.2
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.05550	0.17278	820.4	1304.7
							Open 137450 ALPS345	345 137452 N.SCOT77	345 1				0.00921	-0.04086	-84.4	-199.0
							Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1				-0.01098	0.00000	0.0	0.0
			25106	2803.8	4405.8		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.4	173.0	0.03126		0.02843	77.9	157.6
							C:135850	673								
							Open 135850 SOUR-114	115 135876 TELRDTP1	115 1				-0.11295	-0.02506	-66.0	-136.3
			25206	2808	4408.5		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.9	173.0	0.03101		0.02843	77.9	157.7
							C:135452	599								
							Open 135452 LOCKPORT	115 135872 SOUR-111	115 1				0.10725	0.02407	74.8	142.4
			26113	2811.9	4411		L:135452 LOCKPORT	115 135872 SOUR-111	115 1	73.1	159.0	0.03056		0.02407	74.8	142.5
							C:130754	204								
							Open 130754 KINTI345	345 147834 NIAG 345	345 1				-0.03527	-0.18401	48.6	-468.8
			26120	2812	4411		L:130764 MEYER230	230 131122 WTHRS230	230 1	-273.0	-540.0	-0.09495		-0.08347	-242.2	-476.9
							C:130754	205								
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				-0.05915	0.19408	521.8	1067.5
			26232	2812.5	4411.3		L: Interface 59 MarcySouthS			1935.4	3048.0	0.39561		0.35766	1733.8	2739.7
							C:BUS:N.S	616								
							Open 137453 N.SCOT99	345 147831 GILB 345	345 1				-0.09642	-0.03236	-307.4	-398.4
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				-0.15078	-0.18542	-917.3	-1438.8
							Open 137453 N.SCOT99	345 137516 N.SCOT1	115 1				-0.00329	0.00046	120.3	121.6
							Open 137451 LEEDS 3	345 137453 N.SCOT99	345 2				-0.03947	-0.17398	-860.4	-1349.7
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.02283	0.00000	1.6	1.6
			26428	2815	4413		L:130764 MEYER230	230 131122 WTHRS230	230 1	-307.8	-540.0	-0.08250		-0.08347	-242.2	-477.1
							C:BUS:WAT	633								
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.06554	-0.11389	-547.8	-868.4
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.11714	-0.07197	264.1	61.5
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.05466	0.00000	22.7	22.7
			26508	2819	4415.5		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	84.3	173.0	0.03148		0.02843	77.9	158.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:135850	672							
								Open 135850	SOUR-114 115 135861 MORTIMER	115 1			0.12194	0.02506	52.0	122.7
			26512	2819.2	4415.7	*	L:135859	LAPPINS1	115 135866 NLEROYTA	115 1	85.6	173.0	0.03101	0.02843	77.9	158.0
								C:135872	706							
								Open 135872	SOUR-111 115 135873 SWDN-111	115 1			0.10725	0.02407	71.5	139.4
			26532	2822	4417.4		L:130815	HINMN115	115 135452 LOCKPORT	115 1	190.1	280.0	0.03184	0.02477	170.5	240.3
								C:130770	228							
								Open 130770	SHLDN230 230 131122 WTHRS230	230 1			0.08488	0.08335	231.9	467.2
			26608	2833.2	4424.6		L: Interface	32 F-To-G			4206.2	6118.0	0.67479	0.56513	3715.6	5316.7
								C:130750	192							
								Open 130750	COOPC345 345 130753 FRASR345	345 1			-0.49363	-0.22216	-993.8	-1623.2
			26652	2841.6	4430		L:130815	HINMN115	115 131611 HARIS115	115 1	-217.9	-306.0	-0.03099	-0.02411	-198.0	-266.5
								C:130764	221							
								Open 130764	MEYER230 230 131122 WTHRS230	230 1			0.08245	-0.08347	-242.2	-479.3
			26716	2850.3	4435.6		L:136150	CLAY	345 137200 EDIC	345 2	770.0	1434.0	0.23297	0.17531	579.4	1079.1
								C:136150	715							
								Open 136150	CLAY 345 137200 EDIC	345 1			0.33000	0.17473	577.6	1075.6
			26727	2851.3	4436.2		L:130815	HINMN115	115 135452 LOCKPORT	115 1	189.2	280.0	0.03183	0.02477	170.5	241.1
								C:130767	226							
								Open 130767	STOLE230 230 130770 SHLDN230	230 1			0.08488	0.08323	221.3	458.6
			28167	2863.8	4444.3		L:136150	CLAY	345 137200 EDIC	345 1	768.3	1434.0	0.23245	0.17473	577.6	1077.9
								C:136150	716							
								Open 136150	CLAY 345 137200 EDIC	345 2			0.32926	0.17531	579.4	1081.4
			28220	2869.7	4448.1		L:130815	HINMN115	115 131611 HARIS115	115 1	-217.1	-306.0	-0.03098	-0.02411	-198.0	-267.2
								C:130770	228							
								Open 130770	SHLDN230 230 131122 WTHRS230	230 1			-0.08245	0.08335	231.9	471.1
			28224	2870.2	4448.4	*	L:130750	COOPC345	345 130753 FRASR345	345 1	-1027.3	-1703.0	-0.23543	-0.22216	-993.8	-1631.4
								C:137451	6							
								Open 137451	LEEDS 3 345 137455 ATHENS	345 1			-0.07718	0.17197	433.7	927.3
			28256	2884	4457.3		L:130764	MEYER230	230 131122 WTHRS230	230 1	-256.6	-540.0	-0.09828	-0.08347	-242.2	-482.9
								C:LKWANA-	652							
								Open 417	OXBOW 230 3070 LACKAWNA	230 1			0.11660	-0.12699	-123.7	-489.9
			28287	2899	4466.9		L:130815	HINMN115	115 131611 HARIS115	115 1	-216.2	-306.0	-0.03097	-0.02411	-198.0	-267.9
								C:130767	226							
								Open 130767	STOLE230 230 130770 SHLDN230	230 1			-0.08245	0.08323	221.3	462.6
			28292	2902.5	4469.1		L: Interface	59 MarcySouthS			1810.7	3048.0	0.42629	0.35766	1733.8	2771.9
								C:130753	203							
								Open 130753	FRASR345 345 147831 GILB 345	345 1			0.36478	0.18814	210.7	756.8
			28314	2917.8	4478.9		L:135872	SOUR-111	115 135873 SWDN-111	115 1	69.8	159.0	0.03056	0.02407	71.5	141.8
								C:130754	204							
								Open 130754	KINTI345 345 147834 NIAG 345	345 1			-0.03527	-0.18401	48.6	-488.3
			28327	2921.1	4481.1		L:135851	SHEL-113	115 135874 SWDN-113	115 1	88.6	180.0	0.03128	0.02436	70.0	141.1
								C:130754	205							
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.03569	0.19408	521.8	1088.7
			28333	2923.1	4482.4		L:130770	SHLDN230	230 131122 WTHRS230	230 1	262.8	540.0	0.09483	0.08335	231.9	475.6
								C:130754	205							
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.05915	0.19408	521.8	1089.1
			28338	2930.8	4487.3		L:137453	N.SCOT99	345 147833 MARCY T1	345 1	-1122.6	-1792.0	-0.22839	-0.18542	-917.3	-1460.7
								C:BUS:N.S	615							
								Open 137452	N.SCOT77 345 137453 N.SCOT99	345 1			-0.09197	-0.04334	-242.4	-369.4
								Open 137452	N.SCOT77 345 137516 N.SCOT1	115 1			0.02619	0.00032	113.3	114.3
								Open 137200	EDIC 345 137452 N.SCOT77	345 1			-0.28818	0.17278	820.4	1326.8
								Open 137450	ALPS345 345 137452 N.SCOT77	345 1			-0.06914	-0.04086	-84.4	-204.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28342	2934.2	4489.5		L:130753	Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1	FRASR345 345 147831 GILB 345 345 1	670.4	1524.0	0.29091	0.13842	0.00000	0.0	0.0
								C:130750	192							
			28348	2940	4493.2	*	L:131018	Open 130750 COOPC345 345 130753 FRASR345 345 1	LOUNSI15 115 131850 CNYOG115 115 1	38.9	143.0	0.03539	-0.46259	-0.22216	-993.8	-1645.6
								C:131128	392							
			28353	2943	4495.1		L:130770	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	SHLDN230 230 131122 WTHRS230 230 1	297.5	540.0	0.08238	-0.03223	0.00296	-675.2	-666.5
								C:BUS:WAT	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.06554	-0.11389	-547.8	-883.0
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.11714	-0.07197	264.1	52.3
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.05466	0.00000	22.7	22.7
			28360	2947.3	4497.9		L:135850	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	SOUR-114 115 135876 TELRDTP1 115 1	-85.1	-180.0	-0.03218	-0.02506	-66.0	-139.8	
								C:130754	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.03671	0.19408	521.8	1093.8
			28361	2947.5	4498.1		L: Interface	59 MarcySouthS		1893.6	3048.0	0.39165		0.35766	1733.8	2788.1
								C:BUS:N.S	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					-0.06563	-0.04334	-242.4	-370.1
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					-0.04917	0.00032	113.3	114.3
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					0.18354	0.17278	820.4	1329.7
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.01360	-0.04086	-84.4	-204.9
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01140	0.00000	0.0	0.0
			28366	2954.1	4502.3		L:135858	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	GOLAH115 115 135862 MUMFORD1 115 1	-63.5	-173.0	-0.03707	-0.02891	-41.6	-126.9	
								C:130754	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04206	0.19408	521.8	1095.1
			28367	2955	4502.9		L:137200	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	EDIC 345 137452 N.SCOT77 345 1	820.4	1331.0	0.17278				
								Base Case								
			28369	2955.9	4503.5		L:130794	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	DELHI115 115 130838 OAKDL115 115 1	-73.8	-179.0	-0.03560	-0.01879	-40.4	-95.9	
								C:130753	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.05900	-0.28478	-566.1	-1407.9
			28372	2963	4508		L: Interface	19 PJM-NY		2403.4	3114.0	0.23984		0.23984	1506.8	2217.4
								C:GEN:SEA	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					-0.00004	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			28373	2963	4508		L: Interface	35 NY-PJM		-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4
								C:GEN:SEA	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00004	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			28374	2963	4508		L: Interface	19 PJM-NY		2403.4	3114.0	0.23984		0.23984	1506.8	2217.4
								C:GEN:SEA	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			28375	2963	4508		L: Interface	35 NY-PJM		-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4
								C:GEN:SEA	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			28382	2971.9	4513.7		L:137451	Open 131128 LAPBER 345 136153 LAFAYTTE 345 1	LEEDS 3 345 137455 ATHENS 345 1	983.5	1725.0	0.24949	0.17197	433.7	944.8	
								C:126294	120							
								Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2					-0.42902	-0.18071	-1281.5	-1818.6
			28385	2980.8	4519.4		L: Interface	19 PJM-NY		2399.1	3114.0	0.23984		0.23984	1506.8	2221.7
								C:SIN:250	678							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					-0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			28386	2980.8	4519.4		L: Interface	35 NY-PJM		-2399.1	-3114.0	-0.23984		-0.23984	-1506.8	-2221.7
								C:SIN:250	678							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 100508	SANDB115 115 100509 SB RCTOR	115 2			0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28390	2985	4522.1		L:146769	RAMP138	138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:SIN:440	684							
								Open 125001	ROCK TAV 345 126297 RAMAPO	345 1			-0.14310	0.22243	1116.0	1779.9
			28391	2985	4522.1		L:146769	RAMP138	138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:125001	7							
								Open 125001	ROCK TAV 345 126297 RAMAPO	345 1			-0.14310	0.22243	1116.0	1779.9
			28392	2988.2	4524.2		L:130836	N.WAV115	115 131018 LOUNSI115 115 1	-9.7	173.0	0.06113		0.03549	20.7	126.8
								C:BUS:WAT	634							
								Open 130768	WATRC230 230 130772 SHRED230	230 1			0.24197	0.05180	73.0	227.8
								Open 130757	WATRC345 345 130768 WATRC230	230 1			-0.18210	-0.07197	264.1	49.0
								Open 130763	HILSD230 230 130768 WATRC230	230 1			0.12851	0.00000	0.5	0.5
			28394	2991.4	4526.3		L:130770	SHLDN230	230 131122 WTHRS230 230 1	246.4	540.0	0.09816		0.08335	231.9	481.3
								C:LKWANA-	652							
								Open 417	OXBOW 230 3070 LACKAWNA	230 1			-0.11660	-0.12699	-123.7	-503.5
			28397	2992.7	4527		L:130768	WATRC230	230 130772 SHRED230 230 1	140.7	440.0	0.10001		0.05180	73.0	228.0
								C:130755	206							
								Open 130755	OAKDL345 345 130757 WATRC345	345 1			-0.25937	-0.18586	-261.1	-817.3
			28400	2994.9	4528.5	*	L:130848	S.OWE115	115 131850 CNYOG115 115 1	-37.0	-143.0	-0.03539		-0.03549	-15.2	-121.5
								C:131128	392							
								Open 131128	LAPEER 345 136153 LAFAYTTE	345 1			0.03223	0.00296	-675.2	-666.4



## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:15 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33732  
 First violation - -168790.9 MW.

Interface-1 Interface 31 CE-GROUP Init.Flow= 4219.90 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_E_EXP	GHI_IMPORT	3000.0	1	-168790	-164571		L: Interface 21 PJM-WEST			5144.2	0.0	0.03048		0.04851	5119.7	-3068.1
							C:SER:C39	606								
							Open 409 GROVER	230 200675 E.TWANDA	230 1				0.06508	0.00121	-15.5	-220.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17331	-0.07681	116.1	13081.4
							Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01303	-0.00624	-52.6	1001.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.14729	-0.03203	40.8	5446.7
			2	-168568	-164348		L: Interface 21 PJM-WEST			5145.8	0.0	0.03053		0.04851	5119.7	-3057.3
							C:SER:ETH	607								
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17129	-0.07681	116.1	13064.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.15067	-0.03203	40.8	5439.6
			3	-150404	-146185		L: Interface 21 PJM-WEST			5140.3	0.0	0.03418		0.04851	5119.7	-2176.2
							C:ETHS/LL	650								
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.13790	-0.07681	116.1	11669.1
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.12173	-0.03072	37.4	4658.5
			4	-131914	-127695		L: Interface 21 PJM-WEST			5134.2	0.0	0.03892		0.04851	5119.7	-1279.3
							C:130763	375								
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.12483	-0.07681	116.1	10248.8
			5	-124161	-119941		L: Interface 21 PJM-WEST			5130.8	0.0	0.04132		0.04851	5119.7	-903.2
							C:130763	219								
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.05805	0.12377	-190.6	-15557.8
			6	-121885	-117665		L: Interface 21 PJM-WEST			5137.5	0.0	0.04215		0.04851	5119.7	-792.8
							C:BUS:WAT	634								
							Open 130768 WATRC230	230 130772 SHRED230	230 1				-0.02068	0.05180	73.0	-6240.8
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.07347	-0.07197	264.1	9035.8
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.18954	0.00000	0.5	0.5
			7	-118791	-114571		L: Interface 21 PJM-WEST			5050.1	0.0	0.04251		0.04851	5119.7	-642.7
							C:MULT041	657								
							Open 9 JUNIATA	500 21 SUNBURY	500 1				-0.13385	0.04394	526.9	-4693.3
							Open 21 SUNBURY	500 3084 SUNBURY	230 24				-0.00697	0.01650	-120.9	-2080.7
			8	-117669	-113449		L: Interface 21 PJM-WEST			5137.5	0.0	0.04366		0.04851	5119.7	-588.3
							C:130757	213								
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.06737	-0.07197	264.1	8732.4
			9	-113038	-108818		L: Interface 21 PJM-WEST			5189.8	0.0	0.04591		0.04851	5119.7	-363.6
							C:SER:HC-	601								
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.17843	0.01428	-377.8	-1992.1
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.07359	0.00066	-35.9	-110.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10	-112373	-108153	*	L: Interface	21	PJM-WEST	5182.9	0.0	0.04612		0.04851	5119.7	-331.4
							C:135398		380							
							Open	135398	SW345 345 200769 HOMER CY	345	1		-0.16713	0.01428	-377.8	-1982.6
			1756	-76536.8	-72316.9		L: Interface	20	PJM-CENT	3534.1	0.0	0.04617		0.10355	3274.5	-4651.1
							C:126260		79							
							Open	126260	BOWLINE1 345 146750 WHAV345	345	10		-0.55144	0.10405	-470.6	-8434.6
			1762	-58763.2	-54543.3		L: Interface	20	PJM-CENT	3475.2	0.0	0.05914		0.10355	3274.5	-2810.6
							C:SIN:301		666							
							Open	126260	BOWLINE1 345 146841 BOWL NA							
							Open	126260	BOWLINE1 345 146750 WHAV345	345	10		-0.42591	0.10405	-470.6	-6585.2
							Open	126290	LADENTWN 345 146750 WHAV345	345	1		-0.00103	0.09522	-170.9	-5766.1
			1763	-52472.9	-48252.9		L: Interface	20	PJM-CENT	3233.7	0.0	0.06163		0.10355	3274.5	-2159.2
							C:LKWANA-		652							
							Open	417	OXBOW 230 3070 LACKAWNA	230	1		0.33015	-0.12699	-123.7	6540.0
			1764	-50407.2	-46187.3		L: Interface	20	PJM-CENT	3327.1	0.0	0.06600		0.10355	3274.5	-1945.3
							C:ETHS/NW		649							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.28217	-0.07681	116.1	3988.0
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.25854	-0.03203	40.8	1655.2
							Open	130807	GOUDY115 115 200680 LAUREL L	115	1		0.24719	-0.03072	37.4	1586.1
			1765	-42325.9	-38106		L: Interface	20	PJM-CENT	3308.8	0.0	0.07817		0.10355	3274.5	-1108.5
							C:SER:C39		606							
							Open	409	GROVER 230 200675 E.TWANDA	230	1		0.09832	0.00121	-15.5	-66.9
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.24421	-0.07681	116.1	3367.2
							Open	381	TOWANDA 115 200675 E.TWANDA	230	1		0.01929	-0.00624	-52.6	211.7
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.20672	-0.03203	40.8	1396.4
			1766	-42317	-38097.1		L: Interface	20	PJM-CENT	3311.2	0.0	0.07825		0.10355	3274.5	-1107.5
							C:SER:ETH		607							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.24118	-0.07681	116.1	3366.5
							Open	130836	N.WAV115 115 200676 E.SAYRE	115	1		0.21172	-0.03203	40.8	1396.1
			1767	-39597.7	-35377.8		L: Interface	20	PJM-CENT	3303.4	0.0	0.08342		0.10355	3274.5	-825.9
							C:ETHS/LL		650							
							Open	130763	HILSD230 230 200675 E.TWANDA	230	1		0.19413	-0.07681	116.1	3157.7
							Open	130807	GOUDY115 115 200680 LAUREL L	115	1		0.16981	-0.03072	37.4	1254.0
			1768	-38348.8	-34128.9		L: Interface	20	PJM-CENT	3971.1	0.0	0.10355		0.10355	3274.5	-696.6
							C:GEN:PEA		569							
							Remove unit 1 from bus	34	PCHBTM 2	22.0	1059.5	MW	dispatch			
			1769	-37854.9	-33635		L: Interface	20	PJM-CENT	3920.0	0.0	0.10355		0.10355	3274.5	-645.5
							C:GEN:SAL		568							
							Remove unit 1 from bus	36	SALEM-G1	22.0	1117.3	MW	dispatch			
			1770	-36632.7	-32412.8	*	L: Interface	20	PJM-CENT	3793.4	0.0	0.10355		0.10355	3274.5	-518.9
							C:SIN:250		678							
							Open	100508	SANDB115 115 100509 SB RCTOR	115	2		-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch			
			3525	-7164.1	-2944.1		L: Interface	47	C-PJMWest	-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		-0.25046	-0.18586	-261.1	1070.4
			3526	-7164.1	-2944.1		L: Interface	48	PJMWest-C	482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		0.25046	-0.18586	-261.1	1070.4
			3527	-7164.1	-2944.1		L: Interface	60	C2PJM	-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755		206							
							Open	130755	OAKDL345 345 130757 WATRC345	345	1		-0.25046	-0.18586	-261.1	1070.4
			3528	-7164.1	-2944.1		L: Interface	61	PJMC2C	482.4	0.0	0.06734		0.11389	547.8	-268.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755	206							
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.25046	-0.18586	-261.1	1070.4
			3529	-5962	-1742.1		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3530	-5962	-1742.1		L: Interface	60 C2PJMC		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3531	-5962	-1742.1		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3532	-5962	-1742.1		L: Interface	47 C-PJMWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3533	-5962	-1742.1		L: Interface	48 PJMWest-C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3534	-5962	-1742.1		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2			0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1			-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345	NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA							
									Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch							
			3535	-5962	-1742.1		L: Interface 48 PJMWest-C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:130	669								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3536	-5962	-1742.1		L: Interface 60 C2PJMC			-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:130	669								
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 NA									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3537	-5810.5	-1590.6		L: Interface 47 C-PJMWest			-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.10467	-0.28478	-566.1	1088.6
			3538	-5810.5	-1590.6		L: Interface 60 C2PJMC			-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.10467	-0.28478	-566.1	1088.6
			3539	-5810.5	-1590.6		L: Interface 48 PJMWest-C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.10467	-0.28478	-566.1	1088.6
			3540	-5810.5	-1590.6		L: Interface 61 PJMC2C			488.6	0.0	0.08408		0.11389	547.8	-113.9
							C:130753	200								
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.10467	-0.28478	-566.1	1088.6
			3541	-5627.1	-1407.2		L: Interface 48 PJMWest-C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						-0.03968	0.23158	-1041.8	-2344.9
			3542	-5627.1	-1407.2		L: Interface 47 C-PJMWest			-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						0.03968	0.23158	-1041.8	-2344.9
			3543	-5627.1	-1407.2		L: Interface 60 C2PJMC			-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						0.03968	0.23158	-1041.8	-2344.9
			3544	-5627.1	-1407.2		L: Interface 61 PJMC2C			589.2	0.0	0.10470		0.11389	547.8	-93.1
							C:GEN:IND	774								
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1177.5
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						-0.03968	0.23158	-1041.8	-2344.9
			3545	-5586	-1366.1		L: Interface 48 PJMWest-C			621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC	601								
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.18770	0.01428	-377.8	-457.6
							Open 135277 FALCONER 115 200579 WARREN 115 1						-0.06273	0.00066	-35.9	-39.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3546	-5586	-1366.1		L: Interface	47 C-PJMWest		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
							C:SER:HC-	601								
							Open	135398 SW345 345 200769 HOMER CY	345 1				0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER 115 200579 WARREN	115 1				0.06273	0.00066	-35.9	-39.6
			3547	-5586	-1366.1		L: Interface	61 PJMC2C		621.0	0.0	0.11117		0.11389	547.8	-88.4
							C:SER:HC-	601								
							Open	135398 SW345 345 200769 HOMER CY	345 1				-0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER 115 200579 WARREN	115 1				-0.06273	0.00066	-35.9	-39.6
			3548	-5586	-1366.1		L: Interface	60 C2PJMC		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
							C:SER:HC-	601								
							Open	135398 SW345 345 200769 HOMER CY	345 1				0.18770	0.01428	-377.8	-457.6
							Open	135277 FALCONER 115 200579 WARREN	115 1				0.06273	0.00066	-35.9	-39.6
			3549	-5575.3	-1355.4		L: Interface	60 C2PJMC		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND	773								
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 2				0.03827	0.22576	-1018.5	-2277.2
			3550	-5575.3	-1355.4		L: Interface	48 PJMWest-C		586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND	773								
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 2				-0.03827	0.22576	-1018.5	-2277.2
			3551	-5575.3	-1355.4		L: Interface	47 C-PJMWest		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND	773								
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 2				0.03827	0.22576	-1018.5	-2277.2
			3552	-5575.3	-1355.4		L: Interface	61 PJMC2C		586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND	773								
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-1138.6
							Open	126288 IP2 345 345 126651 IND PT 2	22.0 2				-0.03827	0.22576	-1018.5	-2277.2
			3553	-5549.4	-1329.5		L: Interface	48 PJMWest-C		634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-7	777								
							Open	147827 MARCY765 765 147828 MASS 74	NA							
							Open	147828 MASS 765 765 180819 CHA-NY	NA							
							Open	147827 MARCY765 765 147833 MARCY T1	345 1				0.02482	0.00782	624.3	580.8
							Open	147827 MARCY765 765 147833 MARCY T1	345 2				0.02482	0.00680	543.3	505.5
							Open	156 MCY765SW 0.0 147827 MARCY74	NA							
							Open	147838 MASS230B 230 147839 MOSES E	230 1				0.00000	-0.00731	10.7	51.3
							Open	147828 MASS 765 765 147838 MASS230A	NA							
							Open	147837 MASS230A 230 147839 MOSES E	230 1				-0.05509	0.00000	18.8	18.8
							Open	147828 MASS 765 765 147837 MASS230A	NA							
							Open	158 MS765SW2 0.0 147828 MASS 74	NA							
							Open	157 MS765SW1 0.0 147828 MASS 74	NA							
							Decrease	bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
							Set	bus 181319 CHAT G3 120 load to357.0 MW dispatch								
							Decrease	bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
							Set	bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3554	-5549.4	-1329.5		L: Interface	60 C2PJMC		-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-7	777								
							Open	147827 MARCY765 765 147828 MASS 74	NA							
							Open	147828 MASS 765 765 180819 CHA-NY	NA							
							Open	147827 MARCY765 765 147833 MARCY T1	345 1				-0.02482	0.00782	624.3	580.8
							Open	147827 MARCY765 765 147833 MARCY T1	345 2				-0.02482	0.00680	543.3	505.5
							Open	156 MCY765SW 0.0 147827 MARCY74	NA							
							Open	147838 MASS230B 230 147839 MOSES E	230 1				0.00000	-0.00731	10.7	51.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 765	765 147838 MASS230A	NA						
								Open 147837 MASS230A	230 147839 MOSES E	230 1			0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A	NA						
								Open 158 MS765SW2	0.0 147828 MASS 74	NA						
								Open 157 MS765SW1	0.0 147828 MASS 74	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3555	-5549.4	-1329.5		L: Interface 47 C-PJMWest			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-7		777							
							Open 147827 MARCY765	765 147828 MASS 74	NA							
							Open 147828 MASS 765	765 180819 CHA-NY	NA							
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW	0.0 147827 MARCY74	NA							
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765	765 147838 MASS230A	NA							
							Open 147837 MASS230A	230 147839 MOSES E	230 1				0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765	765 147837 MASS230A	NA							
							Open 158 MS765SW2	0.0 147828 MASS 74	NA							
							Open 157 MS765SW1	0.0 147828 MASS 74	NA							
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch								
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch								
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch								
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch								
			3556	-5549.4	-1329.5		L: Interface 61 PJMC2C			634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-7		777							
							Open 147827 MARCY765	765 147828 MASS 74	NA							
							Open 147828 MASS 765	765 180819 CHA-NY	NA							
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW	0.0 147827 MARCY74	NA							
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765	765 147838 MASS230A	NA							
							Open 147837 MASS230A	230 147839 MOSES E	230 1				-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765	765 147837 MASS230A	NA							
							Open 158 MS765SW2	0.0 147828 MASS 74	NA							
							Open 157 MS765SW1	0.0 147828 MASS 74	NA							
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch								
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch								
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch								
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch								
			3557	-5524.2	-1304.3		L: Interface 47 C-PJMWest			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398		380							
							Open 135398 SW345	345 200769 HOMER CY	345 1				0.17807	0.01428	-377.8	-456.7
			3558	-5524.2	-1304.3		L: Interface 60 C2PJMC			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398		380							
							Open 135398 SW345	345 200769 HOMER CY	345 1				0.17807	0.01428	-377.8	-456.7
			3559	-5524.2	-1304.3		L: Interface 61 PJMC2C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398		380							
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.17807	0.01428	-377.8	-456.7
			3560	-5524.2	-1304.3		L: Interface 48 PJMWest-C			615.1	0.0	0.11135		0.11389	547.8	-81.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:135398		380						
								Open 135398 SW345	345 200769 HOMER	CY	345 1		-0.17807	0.01428	-377.8	-456.7
			3561	-5517.4	-1297.5	*	L: Interface	60 C2PJMC			-628.4	0.0	-0.11389	-0.11389	-547.8	80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3562	-5517.4	-1297.5	*	L: Interface	48 PJMWest-C			628.4	0.0	0.11389	0.11389	547.8	-80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3563	-5517.4	-1297.5	*	L: Interface	47 C-PJMWest			-628.4	0.0	-0.11389	-0.11389	-547.8	80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3564	-5517.4	-1297.5	*	L: Interface	61 PJMC2C			628.4	0.0	0.11389	0.11389	547.8	-80.5
								C:GEN:9 M		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3601	-5252.6	-1032.7		L: Interface	55 PJME-NYEnoRE			1498.1	1287.0	0.04020	0.00000	1299.4	1299.4
								C:SER:HC-		602						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		-0.35376	-0.11389	-547.8	50.4
								Open 135277 FALCONER	115 200579 WARREN		115 1		-0.13836	0.00066	-35.9	-39.3
			3602	-5252.6	-1032.7		L: Interface	56 NYE-PJMENoRE			-1498.1	-1287.0	-0.04020	0.00000	-1299.4	-1299.4
								C:SER:HC-		602						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		0.35376	-0.11389	-547.8	50.4
								Open 135277 FALCONER	115 200579 WARREN		115 1		0.13836	0.00066	-35.9	-39.3
			3635	-5118.8	-898.9		L: Interface	55 PJME-NYEnoRE			1492.4	1287.0	0.04012	0.00000	1299.4	1299.4
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		-0.35224	-0.11389	-547.8	35.2
			3636	-5118.8	-898.9		L: Interface	56 NYE-PJMENoRE			-1492.4	-1287.0	-0.04012	0.00000	-1299.4	-1299.4
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER	CY	345 1		0.35224	-0.11389	-547.8	35.2
			3677	-5022.6	-802.7		L: Interface	52 PJMEast-G			239.7	0.0	0.04772	0.00000	0.3	0.3
								C:125001		7						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		0.21456	0.22243	1116.0	-1.2
			3678	-5022.6	-802.7		L: Interface	51 G-PJMEast			-239.7	0.0	-0.04772	0.00000	-0.3	-0.3
								C:SIN:440		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		-0.21456	0.22243	1116.0	-1.2
			3679	-5022.6	-802.7		L: Interface	51 G-PJMEast			-239.7	0.0	-0.04772	0.00000	-0.3	-0.3
								C:125001		7						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		-0.21456	0.22243	1116.0	-1.2
			3680	-5022.6	-802.7		L: Interface	52 PJMEast-G			239.7	0.0	0.04772	0.00000	0.3	0.3
								C:SIN:440		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO		345 1		0.21456	0.22243	1116.0	-1.2
			10225	-4788.7	-568.8		L: Interface	55 PJME-NYEnoRE			1475.1	1287.0	0.03929	0.00000	1299.4	1299.4
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		-0.17684	-0.22216	-993.8	70.0
			10226	-4788.7	-568.8		L: Interface	56 NYE-PJMENoRE			-1475.1	-1287.0	-0.03929	0.00000	-1299.4	-1299.4
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		0.17684	-0.22216	-993.8	70.0
			10555	-4480.8	-260.9		L: Interface	51 G-PJMEast			-154.0	0.0	-0.03438	0.00000	-0.3	-0.3
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		0.15474	-0.22216	-993.8	1.6
			10556	-4480.8	-260.9		L: Interface	52 PJMEast-G			154.0	0.0	0.03438	0.00000	0.3	0.3
								C:130750		192						
								Open 130750 COOPC345	345 130753 FRASR345		345 1		-0.15474	-0.22216	-993.8	1.6
			10565	-4193.6	26.3		L: Interface	55 PJME-NYEnoRE			1487.8	1287.0	0.04789	0.00000	1299.4	1299.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.21507	-0.03203	40.8	175.1
			10566	-4193.6	26.3		L: Interface	56 NYE-PJMENoRE			-1487.8	-1287.0	-0.04789	0.00000	-1299.4	-1299.4
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.21507	-0.03203	40.8	175.1
			10579	-3912.4	307.5		L: Interface	51 G-PJMEast			-124.9	0.0	-0.03191	0.00000	-0.3	-0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.14830	-0.03203	40.8	166.1
			10580	-3912.4	307.5		L: Interface	52 PJMEast-G			124.9	0.0	0.03191	0.00000	0.3	0.3
								C:SER:HCW	608							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.14830	-0.03203	40.8	166.1
			10593	-3704.4	515.5		L: Interface	63 PJMW2C			513.2	0.0	0.13854	0.25346	353.6	-585.3
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.85100	-0.03072	37.4	151.2
			10594	-3704.4	515.5		L: Interface	62 C2PJMW			-513.2	0.0	-0.13854	-0.25346	-353.6	585.3
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			-0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			-0.85100	-0.03072	37.4	151.2
			10599	-3417.6	802.3		L: Interface	26 ONTARIO-MICH			758.6	0.0	0.22198	0.23984	733.8	-85.9
								C:ETHS/NW	649							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.12796	-0.07681	116.1	378.6
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.13032	-0.03203	40.8	150.3
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.12541	-0.03072	37.4	142.4
			10600	-3289.2	930.7		L: Interface	26 ONTARIO-MICH			750.6	0.0	0.22819	0.23984	733.8	-55.1
								C:SER:ETH	607							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10716	-0.07681	116.1	368.7
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10657	-0.03203	40.8	146.2
			10601	-3288.8	931.1		L: Interface	26 ONTARIO-MICH			750.4	0.0	0.22818	0.23984	733.8	-55.0
								C:SER:C39	606							
								Open 409 GROVER	230 200675 E.TWANDA	230 1			0.00016	0.00121	-15.5	-19.5
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.10740	-0.07681	116.1	368.7
								Open 381 TOWANDA	115 200675 E.TWANDA	230 1			0.00252	-0.00624	-52.6	-32.1
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.10591	-0.03203	40.8	146.2
			10602	-3235.9	984.1		L: Interface	26 ONTARIO-MICH			746.7	0.0	0.23076	0.23984	733.8	-42.3
								C:ETHS/LL	650							
								Open 130763 HILSD230	230 200675 E.TWANDA	230 1			0.08358	-0.07681	116.1	364.6
								Open 130807 GOUDY115	115 200680 LAUREL L	115 1			0.08640	-0.03072	37.4	136.8
			10603	-3230.3	989.6		L: Interface	26 ONTARIO-MICH			760.3	0.0	0.23538	0.23984	733.8	-41.0
								C:W44LC1	643							
								Open 160062 LONGWOOD	220 160074 COWALJ44	220 1			-0.16058	0.02276	189.0	115.5
								Open 160074 COWALJ44	220 160134 BUCHJW44	220 1			0.16305	-0.00491	334.6	350.4
								Open 160054 BUCHANAN	220 160134 BUCHJW44	220 1			-0.00035	0.00491	-256.3	-272.2
								Open 160055 CHATHAM	220 160074 COWALJ44	220 1			0.71978	0.00000	3.1	3.1
			10604	-3230.1	989.8		L: Interface	26 ONTARIO-MICH			760.3	0.0	0.23539	0.23984	733.8	-40.9
								C:W45LC1	644							
								Open 160062 LONGWOOD	220 160075 COWALJ45	220 1			-0.16052	0.02274	189.0	115.6



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open	160075 COWALJ45 220 160135 BUCHJW45	220 1			0.16299	-0.00490	334.4	350.3
								Open	160054 BUCHANAN 220 160135 BUCHJW45	220 1			-0.00035	0.00490	-262.6	-278.4
								Open	160055 CHATHAM 220 160075 COWALJ45	220 1			0.71974	0.00000	3.1	3.1
			10605	-3215.2	1004.7		L: Interface	26 ONTARIO-MICH		770.6	0.0	0.23968		0.23984	733.8	-37.3
							C:131128	392								
							Open	131128 LAPEER 345 136153 LAFAYTTE	345 1				-0.05454	0.00296	-675.2	-684.8
			10606	-3200.3	1019.6		L: Interface	26 ONTARIO-MICH		719.0	0.0	0.22467		0.23984	733.8	-33.8
							C:LKWANA-	652								
							Open	417 OXBOW 230 3070 LACKAWNA	230 1				0.11942	-0.12699	-123.7	282.8
			10607	-3197.5	1022.4		L: Interface	26 ONTARIO-MICH		770.0	0.0	0.24082		0.23984	733.8	-33.1
							C:130755	209								
							Open	130755 OAKDL345 345 131128 LAPEER	345 1				-0.06047	-0.01619	-599.0	-547.2
			10608	-3178.3	1041.6	*	L: Interface	26 ONTARIO-MICH		746.8	0.0	0.23497		0.23984	733.8	-28.5
							C:KEY-SHE	651								
							Open	505 SHELOCTA 230 521 KEYSTONE	230 1				0.08780	-0.04571	48.1	193.3
							Open	473 BLAIRSVL 138 235253 OLSOCIAL	138 1				0.08827	-0.00970	99.7	130.6
			12298	-2956.3	1263.6		L: Interface	56 NYE-PJMENoRE		-1478.3	-1287.0	-0.06473		0.00000	-1299.4	-1299.4
							C:BUS:WAT	633								
							Open	130757 WATRC345 345 200769 HOMER CY	345 1				0.44203	-0.11389	-547.8	-211.1
							Open	130757 WATRC345 345 130768 WATRC230	230 1				0.19985	-0.07197	264.1	476.8
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.46005	0.00000	22.7	22.7
			12299	-2956.3	1263.6		L: Interface	55 PJME-NYEnoRE		1478.3	1287.0	0.06473		0.00000	1299.4	1299.4
							C:BUS:WAT	633								
							Open	130757 WATRC345 345 200769 HOMER CY	345 1				-0.44203	-0.11389	-547.8	-211.1
							Open	130757 WATRC345 345 130768 WATRC230	230 1				-0.19985	-0.07197	264.1	476.8
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.46005	0.00000	22.7	22.7
			12339	-2729.4	1490.5		L: Interface	51 G-PJMEast		-118.6	0.0	-0.04345		0.00000	-0.3	-0.3
							C:BUS:WAT	633								
							Open	130757 WATRC345 345 200769 HOMER CY	345 1				0.29477	-0.11389	-547.8	-237.0
							Open	130757 WATRC345 345 130768 WATRC230	230 1				0.13719	-0.07197	264.1	460.5
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.30599	0.00000	22.7	22.7
			12340	-2729.4	1490.5		L: Interface	52 PJMEast-G		118.6	0.0	0.04345		0.00000	0.3	0.3
							C:BUS:WAT	633								
							Open	130757 WATRC345 345 200769 HOMER CY	345 1				-0.29477	-0.11389	-547.8	-237.0
							Open	130757 WATRC345 345 130768 WATRC230	230 1				-0.13719	-0.07197	264.1	460.5
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.30599	0.00000	22.7	22.7
			12350	-2537.3	1682.6		L: Interface	62 C2PJMW		-458.4	0.0	-0.18068		-0.25346	-353.6	289.5
							C:SER:ETH	607								
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				-0.66732	-0.07681	116.1	310.9
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.67169	-0.03203	40.8	122.1
			12351	-2537.3	1682.6		L: Interface	63 PJMW2C		458.4	0.0	0.18068		0.25346	353.6	-289.5
							C:SER:ETH	607								
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				0.66732	-0.07681	116.1	310.9
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				0.67169	-0.03203	40.8	122.1
			12352	-2533.4	1686.5		L: Interface	62 C2PJMW		-457.5	0.0	-0.18060		-0.25346	-353.6	288.5
							C:SER:C39	606								
							Open	409 GROVER 230 200675 E.TWANDA	230 1				-0.00111	0.00121	-15.5	-18.6
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				-0.66891	-0.07681	116.1	310.7
							Open	381 TOWANDA 115 200675 E.TWANDA	230 1				-0.01713	-0.00624	-52.6	-36.8
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.66726	-0.03203	40.8	122.0
			12353	-2533.4	1686.5		L: Interface	63 PJMW2C		457.5	0.0	0.18060		0.25346	353.6	-288.5
							C:SER:C39	606								
							Open	409 GROVER 230 200675 E.TWANDA	230 1				0.00111	0.00121	-15.5	-18.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			0.66891	-0.07681	116.1	310.7
								Open	381 TOWANDA 115 200675 E.TWANDA	230 1			0.01713	-0.00624	-52.6	-36.8
								Open	130836 N.WAV115 115 200676 E.SAYRE	115 1			0.66726	-0.03203	40.8	122.0
			12364	-2244.8	1975.1		L: Interface	63 PJMW2C		437.0	0.0	0.19466		0.25346	353.6	-215.4
							C:ETHS/LL	650								
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			0.52482	-0.07681	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115 1			0.60169	-0.03072	37.4	106.3
			12365	-2244.8	1975.1		L: Interface	62 C2PJMW		-437.0	0.0	-0.19466		-0.25346	-353.6	215.4
							C:ETHS/LL	650								
								Open	130763 HILSD230 230 200675 E.TWANDA	230 1			-0.52482	-0.07681	116.1	288.5
								Open	130807 GOUDY115 115 200680 LAUREL L	115 1			-0.60169	-0.03072	37.4	106.3
			12370	-2149.4	2070.5		L: Interface	55 PJME-NYEnoRE		1451.8	1287.0	0.07669		0.00000	1299.4	1299.4
							C:130753	200								
								Open	130753 FRASR345 345 130755 OAKDL345	345 1			-0.26930	-0.28478	-566.1	46.0
			12371	-2149.4	2070.5		L: Interface	56 NYE-PJMEEnoRE		-1451.8	-1287.0	-0.07669		0.00000	-1299.4	-1299.4
							C:130753	200								
								Open	130753 FRASR345 345 130755 OAKDL345	345 1			0.26930	-0.28478	-566.1	46.0
			12374	-2070.6	2149.3		L: Interface	63 PJMW2C		524.8	0.0	0.25346		0.25346	353.6	-171.2
							C:GEN:9 M	562								
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			12375	-2070.6	2149.3		L: Interface	62 C2PJMW		-524.8	0.0	-0.25346		-0.25346	-353.6	171.2
							C:GEN:9 M	562								
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			12376	-2063.5	2156.4		L: Interface	62 C2PJMW		-524.2	0.0	-0.25406		-0.25346	-353.6	169.4
							C:HQ-NY-7	777								
								Open	147827 MARCY765 765 147828 MASS 74NA							
								Open	147828 MASS 765 765 180819 CHA-NY NA							
								Open	147827 MARCY765 765 147833 MARCY T1	345 1			-0.04110	0.00782	624.3	608.1
								Open	147827 MARCY765 765 147833 MARCY T1	345 2			-0.04110	0.00680	543.3	529.3
								Open	156 MCY765SW 0.0 147827 MARCY74NA							
								Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	25.8
								Open	147828 MASS 765 765 147838 MASS230NA							
								Open	147837 MASS230A 230 147839 MOSES E	230 1			0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230NA							
								Open	158 MS765SW2 0.0 147828 MASS 74NA							
								Open	157 MS765SW1 0.0 147828 MASS 74NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			12377	-2063.5	2156.4		L: Interface	63 PJMW2C		524.2	0.0	0.25406		0.25346	353.6	-169.4
							C:HQ-NY-7	777								
								Open	147827 MARCY765 765 147828 MASS 74NA							
								Open	147828 MASS 765 765 180819 CHA-NY NA							
								Open	147827 MARCY765 765 147833 MARCY T1	345 1			0.04110	0.00782	624.3	608.1
								Open	147827 MARCY765 765 147833 MARCY T1	345 2			0.04110	0.00680	543.3	529.3
								Open	156 MCY765SW 0.0 147827 MARCY74NA							
								Open	147838 MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	25.8
								Open	147828 MASS 765 765 147838 MASS230NA							
								Open	147837 MASS230A 230 147839 MOSES E	230 1			-0.11489	0.00000	18.8	18.8
								Open	147828 MASS 765 765 147837 MASS230NA							
								Open	158 MS765SW2 0.0 147828 MASS 74NA							
								Open	157 MS765SW1 0.0 147828 MASS 74NA							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23835	-0.11389	-547.8	-589.6
								Open 135277 FALCONER	115 200579 WARREN	115 1			-0.06948	0.00066	-35.9	-35.6
			NA	369.5	4589.4	R	L: Interface	49 C-PJMCentral		57.1	0.0	-0.15456		-0.13956	194.3	142.7
								C:SER:HCW		608						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.33373	-0.03203	40.8	29.0
			NA	369.5	4589.4	R	L: Interface	50 PJMCentral-C		-57.1	0.0	0.15456		0.13956	-194.3	-142.7
								C:SER:HCW		608						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.33373	-0.03203	40.8	29.0
			15924	369.5	4589.4		L: Interface	49 C-PJMCentral		57.1	0.0	-0.15456		-0.13956	194.3	142.7
								C:SER:HCW		608						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			-0.33373	-0.03203	40.8	29.0
			15925	369.5	4589.4		L: Interface	50 PJMCentral-C		-57.1	0.0	0.15456		0.13956	-194.3	-142.7
								C:SER:HCW		608						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE	115 1			0.33373	-0.03203	40.8	29.0
			NA	384.7	4604.6	R	L: Interface	50 PJMCentral-C		-64.1	0.0	0.16662		0.13956	-194.3	-140.6
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23759	-0.11389	-547.8	-591.6
			15928	384.7	4604.6		L: Interface	50 PJMCentral-C		-64.1	0.0	0.16662		0.13956	-194.3	-140.6
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23759	-0.11389	-547.8	-591.6
			15929	384.7	4604.6		L: Interface	49 C-PJMCentral		64.1	0.0	-0.16662		-0.13956	194.3	140.6
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23759	-0.11389	-547.8	-591.6
			NA	384.7	4604.6	R	L: Interface	49 C-PJMCentral		64.1	0.0	-0.16662		-0.13956	194.3	140.6
								C:130757		374						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23759	-0.11389	-547.8	-591.6
			15930	394	4613.9		L: Interface	14 Leads-PV		2523.0	2662.0	0.35267				
								Base Case								
			NA	451.6	4671.5	R	L: Interface	50 PJMCentral-C		-63.8	0.0	0.14120		0.13956	-194.3	-131.2
								C:BUS:WAT		633						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.14481	-0.11389	-547.8	-599.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			0.20651	-0.07197	264.1	231.6
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			-0.14879	0.00000	22.7	22.7
			15933	451.6	4671.5		L: Interface	49 C-PJMCentral		63.8	0.0	-0.14120		-0.13956	194.3	131.2
								C:BUS:WAT		633						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.14481	-0.11389	-547.8	-599.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			-0.20651	-0.07197	264.1	231.6
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.14879	0.00000	22.7	22.7
			NA	451.6	4671.5	R	L: Interface	49 C-PJMCentral		63.8	0.0	-0.14120		-0.13956	194.3	131.2
								C:BUS:WAT		633						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.14481	-0.11389	-547.8	-599.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			-0.20651	-0.07197	264.1	231.6
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			0.14879	0.00000	22.7	22.7
			15934	451.6	4671.5		L: Interface	50 PJMCentral-C		-63.8	0.0	0.14120		0.13956	-194.3	-131.2
								C:BUS:WAT		633						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.14481	-0.11389	-547.8	-599.3
								Open 130757 WATRC345	345 130768 WATRC230	230 1			0.20651	-0.07197	264.1	231.6
								Open 130755 OAKDL345	345 130757 WATRC345	345 1			-0.14879	0.00000	22.7	22.7
			15935	520.5	4740.4		L:126294 PLTVLLEY	345 137455 ATHENS	345 1	-1241.5	-1331.0	-0.17197				

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Base Case								
			15936	569.5	4789.4		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06243		0.03422	139.9	159.4
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22243	1116.0	1242.7
			15937	569.5	4789.4		L:146758 CHESTER	138 146773 SGRLF138	138 1	281.4	317.0	0.06243		0.03422	139.9	159.4
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.12684	0.22243	1116.0	1242.7
			15938	635.8	4855.7		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1578.2	-1725.0	-0.23087		-0.18071	-1281.5	-1396.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.32994	-0.15203	-899.1	-995.8
			NA	742.1	4962	R	L: Interface 50	PJMCentral-C		-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			NA	742.1	4962	R	L: Interface 49	C-PJMCentral		103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15939	742.1	4962	*	L: Interface 50	PJMCentral-C		-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15940	742.1	4962	*	L: Interface 49	C-PJMCentral		103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 M		562							
							Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch					
			15941	772.3	4992.2		L: Interface 14	Leeds-PV		3102.0	3450.0	0.45057		0.35267	2523.0	2795.4
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				-0.64393	-0.15203	-899.1	-1016.6
			15944	893.7	5113.6		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:125002		10							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01700	1505.3	1490.1
			15945	893.7	5113.6		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				-0.18921	-0.01700	1505.3	1490.1
			15946	900	5119.9		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:SIN:440		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22243	1116.0	1316.2
			15947	900	5119.9		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:125001		7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.16092	0.22243	1116.0	1316.2
			15952	915.8	5135.7		L:126294 PLTVLLEY	345 137455 ATHENS	345 1	-1523.8	-1725.0	-0.21970		-0.17197	-1241.5	-1399.0
							C:125000		3							
							Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1				0.31399	-0.15203	-899.1	-1038.4
			15953	931.5	5151.4		L:146758 CHESTER	138 146771 SHOEM138	138 1	-260.5	-317.0	-0.06069		-0.03422	-175.4	-207.2
							C:125001		9							
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.19956	-0.13269	-426.4	-550.0
			15958	959.7	5179.6		L:130750 COOPC345	345 130753 FRASR345	345 1	-993.8	-1207.0	-0.22216				
							Base Case									
			15961	982.5	5202.4		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1472.9	-1725.0	-0.25658		-0.18071	-1281.5	-1459.1
							C:137451		6							
							Open 137451 LEEDS 3	345 137455 ATHENS	345 1				-0.44120	0.17197	433.7	602.7
			15976	1071.3	5291.2		L: Interface 14	Leeds-PV		3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:SIN:430		683							
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.36927	-0.01700	1505.3	1487.1
			15977	1071.3	5291.2		L: Interface 14	Leeds-PV		3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:125002		10							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 130763	HILSD230 230 200675 E.TWANDA	230 1			-0.37659	-0.07681	116.1	9.9	
								Open 130836	N.WAV115 115 200676 E.SAYRE	115 1			-0.38829	-0.03203	40.8	-3.4	
								Open 130807	GOUDY115 115 200680 LAUREL L	115 1			-0.41611	-0.03072	37.4	-5.1	
			16351	1384	5603.9		L:130750	COOPC345	345 130753 FRASR345	345 1	-1314.3	-1703.0	-0.28085		-0.22216	-993.8	-1301.3
							C:130750			196							
							Open 130750	COOPC345	345 147833 MARCY T1	345 1			0.43311	-0.13551	-740.0	-927.6	
			19324	1427.3	5647.2		L:126294	PLTVLLEY	345 137455 ATHENS	345 1	-1425.5	-1725.0	-0.20985		-0.17197	-1241.5	-1486.9
							C:125000			1							
							Open 125000	HURLEY 3	345 125002 ROSETON	345 1			-0.27917	0.13569	659.1	852.8	
			19401	1494.6	5714.5		L:130750	COOPC345	345 146754 MDTN TAP	345 1	1349.4	1793.0	0.29678		0.18761	872.9	1153.3
							C:125001			8							
							Open 125001	ROCK TAV	345 130750 COOPC345	345 2			-0.64201	-0.17006	-742.3	-996.5	
			19432	1515.9	5735.8		L:146758	CHESTER	138 146773 SGRFL138	138 1	225.0	317.0	0.06069		0.03422	139.9	191.8
							C:125001			9							
							Open 125001	ROCK TAV	345 146754 MDTN TAP	345 1			-0.19956	-0.13269	-426.4	-627.6	
			NA	1516.2	5736.1	R	L: Interface	53 PJME-NYE			1000.5	787.0	-0.14079		0.00000	452.2	452.2
							C:SIN:120			668							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 1			-0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 2			-0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126290 LADENTWN	345 1			-0.69167	0.23158	39.8	391.0	
							Open 126263	BUCHANAN S	345 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch								
			NA	1516.2	5736.1	R	L: Interface	53 PJME-NYE			1000.5	787.0	-0.14079		0.00000	452.2	452.2
							C:SIN:130			669							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 1			-0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 2			-0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126290 LADENTWN	345 1			-0.69167	0.23158	39.8	391.0	
							Open 126263	BUCHANAN S	345 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch								
			NA	1516.2	5736.1	R	L: Interface	54 NYE-PJME			-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2
							C:SIN:130			669							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 1			0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 2			0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126290 LADENTWN	345 1			0.69167	0.23158	39.8	391.0	
							Open 126263	BUCHANAN S	345 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch								
			NA	1516.2	5736.1	R	L: Interface	54 NYE-PJME			-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2
							C:SIN:120			668							
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 1			0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126291 MILLWOOD	345 2			0.06930	-0.13991	785.6	573.5	
							Open 126263	BUCHANAN S	345 126290 LADENTWN	345 1			0.69167	0.23158	39.8	391.0	
							Open 126263	BUCHANAN S	345 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Open 147798	IP#3 GEN	22.0 147832 IP3 345NA								
							Remove unit 1	from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch								
			19445	1523.4	5743.3		L: Interface	14 Leeds-PV			2813.7	3450.0	0.41765		0.35267	2523.0	3060.3
							C:130750			192							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19513	1862.3	6082.2			Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
							L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 M		562							
			19514	1866	6085.9			Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
							L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-7		777							
							Open 147827	MARCY765 765 147828 MASS 74	NA							
							Open 147828	MASS 765 765 180819 CHA-NY	NA							
							Open 147827	MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00782	624.3	638.9	
							Open 147827	MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00680	543.3	556.0	
							Open 156	MCY765SW 0.0 147827 MARCY74	NA							
							Open 147838	MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	-2.9	
							Open 147828	MASS 765 765 147838 MASS230	NA							
							Open 147837	MASS230A 230 147839 MOSES E	230 1			-0.09628	0.00000	18.8	18.8	
							Open 147828	MASS 765 765 147837 MASS230	NA							
							Open 158	MS765SW2 0.0 147828 MASS 74	NA							
							Open 157	MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus	180001 BEA-DLX 13.8 generation by	100.0 percent dispatch							
							Set bus	181319 CHAT G3 120 load to	357.0 MW dispatch							
							Decrease bus	180002 BEA-DL 13.8 generation by	100.0 percent dispatch							
							Set bus	181419 CHAT G4 120 load to	357.0 MW dispatch							
			NA	1866	6085.9	R	L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-7		777							
							Open 147827	MARCY765 765 147828 MASS 74	NA							
							Open 147828	MASS 765 765 180819 CHA-NY	NA							
							Open 147827	MARCY765 765 147833 MARCY T1	345 1			-0.25140	0.00782	624.3	638.9	
							Open 147827	MARCY765 765 147833 MARCY T1	345 2			-0.25140	0.00680	543.3	556.0	
							Open 156	MCY765SW 0.0 147827 MARCY74	NA							
							Open 147838	MASS230B 230 147839 MOSES E	230 1			0.00000	-0.00731	10.7	-2.9	
							Open 147828	MASS 765 765 147838 MASS230	NA							
							Open 147837	MASS230A 230 147839 MOSES E	230 1			-0.09628	0.00000	18.8	18.8	
							Open 147828	MASS 765 765 147837 MASS230	NA							
							Open 158	MS765SW2 0.0 147828 MASS 74	NA							
							Open 157	MS765SW1 0.0 147828 MASS 74	NA							
							Decrease bus	180001 BEA-DLX 13.8 generation by	100.0 percent dispatch							
							Set bus	181319 CHAT G3 120 load to	357.0 MW dispatch							
							Decrease bus	180002 BEA-DL 13.8 generation by	100.0 percent dispatch							
							Set bus	181419 CHAT G4 120 load to	357.0 MW dispatch							
			19515	1868.3	6088.2		L:125001	ROCK TAV 345 130750 COOPC345	345 2	-1261.0	-1793.0	-0.28477		-0.17006	-742.3	-1060.0
							C:SER:CMT		594							
							Open 130750	COOPC345 345 146754 MDTN TAP	345 1			-0.55571	0.18761	872.9	1223.4	
							Open 125001	ROCK TAV 345 146754 MDTN TAP	345 1			0.07882	-0.13269	-426.4	-674.3	
			19516	1902.5	6122.4		L:126294	PLTVLLEY 345 137451 LEEDS 3	345 2	-1353.5	-1725.0	-0.19525		-0.18071	-1281.5	-1625.3
							C:SER:CMT		594							
							Open 130750	COOPC345 345 146754 MDTN TAP	345 1			-0.09359	0.18761	872.9	1229.8	
							Open 125001	ROCK TAV 345 146754 MDTN TAP	345 1			-0.02274	-0.13269	-426.4	-678.9	
			19517	1912.8	6132.7		L:126294	PLTVLLEY 345 137451 LEEDS 3	345 2	-1354.0	-1725.0	-0.19397		-0.18071	-1281.5	-1627.2
							C:130750		196							
							Open 130750	COOPC345 345 147833 MARCY T1	345 1			0.09788	-0.13551	-740.0	-999.2	
			19520	1924.2	6144.1		L: Interface	23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9
							C:GEN:GIN		563							
							Remove unit 1 from bus 149140 GINNA 19	19.0 605.0 MW dispatch								
			NA	1924.2	6144.1	R	L: Interface	23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:GEN:GIN	563							
								Remove unit 1 from bus 149140 GINNA 19	19.0	605.0 MW dispatch						
			19521	1940.2	6160.1		L:135872	SOUR-111 115 135873 SWDN-111 115 1	89.3	159.0	0.03591			0.02407	71.5	118.2
								C:147834	226							
			19522	1954.6	6174.5	*	L:126294	Open 147834 NIAG 345 345 149000 ROCH 345 345 1	-1345.1	-1725.0	-0.19436	0.04252	0.27848	418.2	958.5	
								PLTVLLEY 345 137451 LEEDS 3 345 2						-0.18071	-1281.5	-1634.8
								C:130750	195							
			19523	1977.2	6197.1		L: Interface	Open 130750 COOPC345 345 146754 MDTN TAP 345 1	966.9	0.0	-0.48904	-0.07280	0.18761	872.9	1239.6	
								23 QFW						-0.48904	1095.9	129.0
								C:GEN:SEA	574							
			NA	1977.2	6197.1	R	L: Interface	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	966.9	0.0	-0.48904	-0.48904	1095.9	129.0		
								23 QFW								
								C:GEN:SEA	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				0.00003	0.00000	-0.1	-0.1	
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			19528	1988.6	6208.5		L:130819	KATEL115 115 130838 OAKDL115 115 1	-121.4	-192.0	-0.03551		-0.01769	-86.0	-121.1	
								C:130753	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1				0.06258	-0.28478	-566.1	-1132.4	
			19529	1993.1	6213		L:130753	FRASR345 345 130755 OAKDL345 345 1	-762.3	-1380.0	-0.30993	-0.28478	-566.1	-1133.7		
								C:130753	202							
								Open 130753 FRASR345 345 137200 EDIC 345 1				0.27552	-0.09129	-712.0	-893.9	
			19533	2016.6	6236.5		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	99.5	173.0	0.03645	0.02843	77.9	135.2		
								C:130754	205							
			NA	2023.1	6243	R	L:125015	Open 130754 KINTI345 345 149000 ROCH 345 345 1				0.04136	0.19408	521.8	913.1	
								AC CBLTP 115 125041 N.CHELSE 115 1	319.0	240.0	-0.03903	-0.01988	162.2	122.0		
								C:125021	29							
			NA	2028.7	6248.6	R	L:125015	Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1				0.92978	-0.02060	168.6	126.9	
								AC CBLTP 115 125041 N.CHELSE 115 1	319.2	240.0	-0.03903	-0.01988	162.2	121.9		
								C:125020	25							
								Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1				0.92978	-0.02060	168.8	127.0	
			19544	2061.2	6281.1		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2	-1214.4	-1724.0	-0.24721	-0.17398	-860.4	-1219.0		
								C:BUS:N.S	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1				0.60778	-0.04334	-242.4	-331.7	
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1				0.40442	0.00032	113.3	114.0	
								Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.33527	0.17278	820.4	1176.6	
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1				-0.26700	-0.04086	-84.4	-168.7	
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1				0.20564	0.00000	0.0	0.0	
			19545	2063.9	6283.8		L: Interface	14 Leeds-PV	2663.5	3450.0	0.38105	0.35267	2523.0	3250.9		
								C:SER:CMT	594							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1				0.18265	0.18761	872.9	1260.1	
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1				0.04437	-0.13269	-426.4	-700.3	
			19549	2075.3	6295.2		L: Interface	14 Leeds-PV	2664.4	3450.0	0.37856	0.35267	2523.0	3254.9		
								C:130750	196							
								Open 130750 COOPC345 345 147833 MARCY T1 345 1				-0.19102	-0.13551	-740.0	-1021.2	
			19550	2082.3	6302.2		L:130757	WATRC345 345 130768 WATRC230 230 1	459.8	600.0	0.06734	-0.07197	264.1	114.2		
								C:130755	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1				-0.74954	-0.18586	-261.1	-648.1	
			19551	2084.9	6304.8		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1	-83.3	-173.0	-0.04302	-0.02891	-62.1	-122.4		
								C:147834	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1				-0.05070	0.27848	418.2	998.8	
			19556	2113.3	6333.2		L:130750	COOPC345 345 130753 FRASR345 345 1	-1076.8	-1703.0	-0.29630	-0.22216	-993.8	-1463.3		
								C:130753	203							
								Open 130753 FRASR345 345 147831 GILB 345 345 1				-0.39407	0.18814	210.7	608.3	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19557	2116.4	6336.3		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	445.8	562.0	0.05492				
							Base Case									
			19558	2116.8	6336.7		L: Interface 14 Leeds-PV			2647.1	3450.0	0.37933		0.35267	2523.0	3269.6
							C:130750		195							
							Open 130750 COOPC345		345 146754 MDTN TAP 345 1				0.14209	0.18761	872.9	1270.0
			NA	2125.7	6345.6	R	L: Interface 54 NYE-PJME			-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				0.60931	0.23158	-1041.8	-549.5
			NA	2125.7	6345.6	R	L: Interface 53 PJME-NYE			1087.0	787.0	-0.14111		0.00000	452.2	452.2
							C:GEN:IND		774							
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	275.0
							Open 147798 IP#3 GEN		22.0 147832 IP3 345 345 2				-0.60931	0.23158	-1041.8	-549.5
			NA	2126.8	6346.7	R	L: Interface 53 PJME-NYE			1085.6	787.0	-0.14041		0.00000	452.2	452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				-0.62193	0.22576	-1018.5	-538.3
			NA	2126.8	6346.7	R	L: Interface 54 NYE-PJME			-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2
							C:GEN:IND		773							
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-269.2
							Open 126288 IP2 345		345 126651 IND PT 2 22.0 2				0.62193	0.22576	-1018.5	-538.3
			19566	2128.9	6348.8		L:135452 LOCKPORT		115 135872 SOUR-111 115 1	93.2	159.0	0.03092		0.02407	74.8	126.0
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.03527	0.19408	521.8	934.9
			19573	2139.1	6359		L:135452 LOCKPORT		115 135876 TELRDTP1 115 1	103.6	180.0	0.03571		0.02393	85.9	137.1
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04231	0.27848	418.2	1013.9
			19585	2171.2	6391.1		L:146754 MDTN TAP		345 146772 SHOEMTAP 138 1	553.8	746.0	0.08853		0.05492	445.8	565.0
							C:125001		9							
							Open 125001 ROCK TAV		345 146754 MDTN TAP 345 1				-0.25331	-0.13269	-426.4	-714.5
			19586	2171.9	6391.8		L: Interface 14 Leeds-PV			2627.6	3450.0	0.37867		0.35267	2523.0	3289.0
							C:SER:PV		598							
							Open 103105 LONG MTN		345 103117 CTNY398 345 1				0.33670	0.07721	310.6	478.3
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				-0.23705	0.00000	0.2	0.2
			19587	2172	6391.9	*	L: Interface 14 Leeds-PV			2627.5	3450.0	0.37867		0.35267	2523.0	3289.0
							C:103117		362							
							Open 103117 CTNY398		345 126294 PLTVLLEY 345 1				0.33670	0.07721	310.4	478.1
			19607	2205.9	6425.8		L:135850 SOUR-114		115 135861 MORTIMER 115 1	70.5	153.0	0.03738		0.02506	52.0	107.3
							C:147834		226							
							Open 147834 NIAG 345		345 149000 ROCH 345 345 1				0.04425	0.27848	418.2	1032.5
			19690	2233.5	6453.4		L:135872 SOUR-111		115 135873 SWDN-111 115 1	89.9	159.0	0.03092		0.02407	71.5	125.3
							C:130754		205							
							Open 130754 KINTI345		345 149000 ROCH 345 345 1				0.03527	0.19408	521.8	955.2
			19691	2233.5	6453.4		L:126294 PLTVLLEY		345 137455 ATHENS 345 1	-1310.0	-1725.0	-0.18580		-0.17197	-1241.5	-1625.6
							C:SER:CMT		594							
							Open 130750 COOPC345		345 146754 MDTN TAP 345 1				-0.08906	0.18761	872.9	1291.9
							Open 125001 ROCK TAV		345 146754 MDTN TAP 345 1				-0.02164	-0.13269	-426.4	-722.8
			21081	2246	6465.9		L:126294 PLTVLLEY		345 137455 ATHENS 345 1	-1310.4	-1725.0	-0.18459		-0.17197	-1241.5	-1627.7
							C:130750		196							
							Open 130750 COOPC345		345 147833 MARCY T1 345 1				0.09314	-0.13551	-740.0	-1044.4
			21170	2250.5	6470.4		L:130764 MEYER230		230 131122 WTHRS230 230 1	-242.2	-430.0	-0.08347				
							Base Case									
			21209	2254.7	6474.6		L:130836 N.WAV115		115 131018 LOUNSI115 115 1	48.5	173.0	0.05524		0.03549	20.7	100.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130755	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.18586	-261.1	-680.2
			21251	2259.1	6479		L:130750	COOPC345 345 130753 FRASR345 345 1	-1143.6	-1703.0	-0.24764		-0.22216	-993.8	-1495.7	
								C:137451	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1	345 1				0.16356	-0.15578	-915.6	-1267.5
			21260	2262.2	6482.1		L:135452	LOCKPORT 115 135851 SHEL-113 115 1	97.8	180.0	0.03633		0.02435	79.8	134.9	
								C:147834	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1	345 1				0.04302	0.27848	418.2	1048.2
			21290	2276.5	6496.4		L:137453	N.SCOT99 345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4	
								C:SIN:160	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1	345 1				-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1	115 1				-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1	115 1				-0.00023	-0.00033	74.9	74.2
			21291	2276.5	6496.4		L:137453	N.SCOT99 345 147833 MARCY T1 345 1	-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4	
								C:SIN:150	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1	345 1				-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1	115 1				-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1	115 1				-0.00016	-0.00021	88.8	88.3
			21304	2287.1	6507		L:126294	PLTVLLEY 345 137455 ATHENS 345 1	-1302.0	-1725.0	-0.18496		-0.17197	-1241.5	-1634.8	
								C:130750	195							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1	345 1				-0.06928	0.18761	872.9	1301.9
			21305	2287.5	6507.4		L: Interface	59 MarcySouthS	1733.8	2552.0	0.35766					
								Base Case								
			21306	2287.9	6507.8		L:130815	HINMN115 115 135452 LOCKPORT 115 1	191.4	280.0	0.03872		0.02477	170.5	227.1	
								C:147834	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1	345 1				0.05011	0.27848	418.2	1055.3
			21327	2317.9	6537.8		L:146758	CHESTER 138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7	
								C:125002	10							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1	345 1				-0.04251	-0.01700	1505.3	1465.9
			21328	2317.9	6537.8		L:146758	CHESTER 138 146771 SHOEM138 138 1	-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7	
								C:SIN:430	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1	345 1				-0.04251	-0.01700	1505.3	1465.9
			21331	2322.8	6542.8		L:130794	DELHI115 115 130851 SIDNT115 115 1	-33.5	-120.0	-0.03724		-0.02058	-0.4	-48.2	
								C:130753	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1	345 1				0.05851	-0.28478	-566.1	-1227.6
			21336	2327.8	6547.7		L:130815	HINMN115 115 131611 HARS115 115 1	-218.3	-306.0	-0.03766		-0.02411	-198.0	-254.1	
								C:147834	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1	345 1				-0.04868	0.27848	418.2	1066.4
			21349	2342.6	6562.5	*	L:126294	PLTVLLEY 345 137455 ATHENS 345 1	-1292.5	-1725.0	-0.18464		-0.17197	-1241.5	-1644.3	
								C:SER:PV	598							
								Open 103105 LONG MTN 345 103117 CTNY398 345 1	345 1				-0.16418	0.07721	310.6	491.5
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1	345 1				0.11559	0.00000	0.2	0.2
			21356	2347.9	6567.8		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1	-1185.3	-1724.0	-0.22943		-0.17495	-865.1	-1275.8	
								C:137451	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1	345 1				0.34978	-0.15578	-915.6	-1281.4
			21381	2376.2	6596.1		L:130770	SHLDN230 230 131122 WTHRS230 230 1	231.9	430.0	0.08335					
								Base Case								
			21383	2377.5	6597.4		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2	-1180.8	-1724.0	-0.22849		-0.17398	-860.4	-1274.1	
								C:137451	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1	345 1				0.34988	-0.15578	-915.6	-1286.0
			21388	2379.4	6599.3		L:130764	MEYER230 230 131122 WTHRS230 230 1	-306.1	-540.0	-0.09831		-0.08347	-242.2	-440.8	
								C:SER:HCW	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1	345 1				0.11956	-0.11389	-547.8	-818.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21409	2399.9	6619.8		L:135862	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		0.03820	-0.03203	40.8	-35.4
								MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.03707		-0.02891	-62.1	-131.5
								C:130754 205								
			21416	2405	6624.9		L:130764	Open 130754 KINTI345 345 149000 ROCH 345 345 1		345	1		-0.04206	0.19408	521.8	987.5
								MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.09693		-0.08347	-242.2	-442.9
								C:130757 374								
			21419	2410.4	6630.3		L:137453	Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		0.11817	-0.11389	-547.8	-821.7
								N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24517		-0.18542	-917.3	-1364.2
								C:137200 946								
			21428	2419.1	6639		L:130753	Open 137200 EDIC 345 137452 N.SCOT77 345 1		345	1		-0.34584	0.17278	820.4	1236.9
								FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.28478				
								Base Case								
			21445	2428.6	6648.5		L:130764	Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		0.11759	-0.11389	-547.8	-824.4
								MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.09690		-0.08347	-242.2	-444.9
								C:SER:HC- 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		0.11759	-0.11389	-547.8	-824.4
			21495	2441.4	6661.3		L:137200	Open 135277 FALCONER 115 200579 WARREN 115 1		115	1		-0.05270	0.00066	-35.9	-34.2
								EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:170 672								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00024	-0.00033	74.9	74.1
			21496	2441.4	6661.3		L:137200	Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:180 673								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00016	-0.00021	88.8	88.3
			22758	2455.9	6675.8		L:130753	Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00016	-0.00021	88.8	88.3
								FRASR345 345 130755 OAKDL345 345 1		-645.1	-1380.0	-0.29924		-0.28478	-566.1	-1265.5
								C:130750 196								
			22953	2464.7	6684.6		L:135452	Open 130750 COOPC345 345 147833 MARCY T1 345 1		345	1		0.10675	-0.13551	-740.0	-1072.8
								LOCKPORT 115 135876 TELRDTP1 115 1		104.2	180.0	0.03074		0.02393	85.9	144.9
								C:130754 205								
			23032	2486.2	6706.1		L:130770	Open 130754 KINTI345 345 149000 ROCH 345 345 1		345	1		0.03510	0.19408	521.8	1000.1
								SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.09819		0.08335	231.9	439.2
								C:SER:HCV 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1		345	1		-0.11956	-0.11389	-547.8	-831.0
			23034	2486.7	6706.6		L:130753	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		-0.03820	-0.03203	40.8	-38.8
								FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:180 673								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00061	-0.00021	88.8	88.3
			23035	2486.7	6706.6		L:130753	Open 137235 PORTER 1 115 147905 ILION 115 1		115	1		0.00061	-0.00021	88.8	88.3
								FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:170 672								
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1		345	1		0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1		115	1		-0.04710	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00092	-0.00033	74.9	74.1
			23059	2503.1	6723		L:130753	Open 137235 PORTER 1 115 137246 VALLEY 115 1		115	1		0.00092	-0.00033	74.9	74.1
								FRASR345 345 130755 OAKDL345 345 1		-667.2	-1380.0	-0.28478		-0.28478	-566.1	-1278.9
								C:SIN:250 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			23065	2507.5	6727.4		L:130767	Open 130836 N.WAV115 115 200676 E.SAYRE 115 1		115	1		-0.03820	-0.03203	40.8	-38.8
								STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.08323				
								Base Case								
			23071	2513.4	6733.3		L:130770	Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09681		0.08335	231.9	441.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:130757		374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.11817	-0.11389	-547.8	-834.1
			23072	2513.4	6733.3		L:130753 FRASR345	345 130755 OAKDL345	345 1	-631.2	-1380.0	-0.29793		-0.28478	-566.1	-1281.9
							C:137453		12							
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				0.07093	-0.18542	-917.3	-1383.3
			23094	2528.5	6748.4		L:130753 FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
							C:SIN:150		670							
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
							Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				-0.04607	0.00000	119.9	119.9
							Open 137235 PORTER 1	115 147905 ILION	115 1				0.00061	-0.00021	88.8	88.3
			23095	2528.5	6748.4		L:130753 FRASR345	345 130755 OAKDL345	345 1	-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
							C:SIN:160		671							
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
							Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				-0.04614	0.00000	119.9	119.9
							Open 137235 PORTER 1	115 137246 VALLEY	115 1				0.00092	-0.00033	74.9	74.1
			23097	2529.8	6749.7		L:131018 LOUNSI15	115 131850 CNYOG115	115 1	14.5	143.0	0.05078		0.03549	17.2	107.0
							C:BUS:WAT		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.05666	-0.11389	-547.8	-835.9
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.12284	-0.07197	264.1	82.0
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.05531	0.00000	22.7	22.7
			23100	2531.9	6751.8		L:146758 CHESTER	138 146771 SHOEM138	138 1	-175.4	-262.0	-0.03422				
							Base Case									
			23101	2532.1	6752.1		L:135851 SHEL-113	115 135874 SWDN-113	115 1	88.0	180.0	0.03634		0.02436	70.0	131.7
							C:147834		226							
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.04303	0.27848	418.2	1123.3
			23105	2535.2	6755.1		L:146771 SHOEM138	138 146772 SHOEMTAP	138 1	-445.8	-585.0	-0.05492				
							Base Case									
			23107	2537	6756.9		L:130770 SHLDN230	230 131122 WTHRS230	230 1	294.5	540.0	0.09678		0.08335	231.9	443.4
							C:SER:HC-		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.11759	-0.11389	-547.8	-836.8
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.05270	0.00066	-35.9	-34.2
			23109	2538.2	6758.1		L:130753 FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
							C:GEN:SEA		576							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00002	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			23110	2538.2	6758.1*		L:130753 FRASR345	345 130755 OAKDL345	345 1	-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
							C:GEN:SEA		574							
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			23112	2542.1	6762		L:135850 SOUR-114	115 135861 MORTIMER	115 1	71.2	153.0	0.03218		0.02506	52.0	115.7
							C:130754		205							
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				0.03670	0.19408	521.8	1015.1
			23133	2553.8	6773.7		L:130807 GOUDY115	115 130848 S.OWE115	115 1	-1.9	-143.0	-0.05524		-0.03549	25.8	-64.8
							C:130755		206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.10626	-0.18586	-261.1	-735.8
			23135	2554.7	6774.6		L:135850 SOUR-114	115 135876 TELRTP1	115 1	-84.5	-180.0	-0.03738		-0.02506	-66.0	-130.0
							C:147834		226							
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.04425	0.27848	418.2	1129.6
			23137	2555	6774.9		L:131018 LOUNSI15	115 131850 CNYOG115	115 1	-13.2	143.0	0.06113		0.03549	17.2	107.9
							C:BUS:WAT		634							
							Open 130768 WATRC230	230 130772 SHRED230	230 1				0.24197	0.05180	73.0	205.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.18210	-0.07197	264.1	80.2
							Open 130763 HILSD230	230 130768 WATRC230	230 1				0.12851	0.00000	0.5	0.5
			23141	2558.3	6778.2		L:130750 COOPC345	345 130753 FRASR345	345 1	-1092.1	-1703.0	-0.23878		-0.22216	-993.8	-1562.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:125000								
								Open 125000	HURLEY 3 345 137451 LEEDS 3	345 1			0.10935	-0.15203	-899.1	-1288.1
			23143	2562.4	6782.3		L:135858	GOLAH115	115 135862 MUMFORD1 115 1	-62.8	-173.0	-0.04302		-0.02891	-41.6	-115.6
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			-0.05070	0.27848	418.2	1131.8
			23151	2568	6787.9		L:130848	S.OWE115	115 131850 CNYOG115 115 1	-12.6	-143.0	-0.05078		-0.03549	-15.2	-106.4
								C:BUS:WAT								
								Open 130757	WATRC345 345 200769 HOMER CY	345 1			0.05666	-0.11389	-547.8	-840.3
								Open 130757	WATRC345 345 130768 WATRC230	230 1			0.12284	-0.07197	264.1	79.3
								Open 130755	OAKDL345 345 130757 WATRC345	345 1			0.05531	0.00000	22.7	22.7
			23156	2572.4	6792.3		L:130750	COOPC345	345 130753 FRASR345 345 1	-1094.9	-1703.0	-0.23641		-0.22216	-993.8	-1565.3
								C:126294								
								Open 126294	PLTVLLEY 345 137451 LEEDS 3	345 2			0.07887	-0.18071	-1281.5	-1746.4
			23159	2573.2	6793.1		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07341		0.00000	-452.2	-452.2
								C:130753								
								Open 130753	FRASR345 345 130755 OAKDL345	345 1			0.25776	-0.28478	-566.1	-1298.9
			23160	2573.2	6793.1		L: Interface	53 PJME-NYE		598.1	787.0	0.07341		0.00000	452.2	452.2
								C:130753								
								Open 130753	FRASR345 345 130755 OAKDL345	345 1			-0.25776	-0.28478	-566.1	-1298.9
			23172	2580.6	6800.5		L:147834	NIAG 345	345 149000 ROCH 345 345 1	697.9	1685.0	0.38252		0.27848	418.2	1136.8
								C:130754								
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.53609	0.19408	521.8	1022.6
			23173	2581.1	6801		L:137200	EDIC	345 137452 N.SCOT77 345 1	1121.1	1724.0	0.23357		0.17278	820.4	1266.4
								C:137453								
								Open 137453	N.SCOT99 345 147833 MARCY T1	345 1			-0.32782	-0.18542	-917.3	-1395.9
			23178	2586.8	6806.7		L:130848	S.OWE115	115 131850 CNYOG115 115 1	15.1	-143.0	-0.06113		-0.03549	-15.2	-107.0
								C:BUS:WAT								
								Open 130768	WATRC230 230 130772 SHRED230	230 1			-0.24197	0.05180	73.0	207.0
								Open 130757	WATRC345 345 130768 WATRC230	230 1			0.18210	-0.07197	264.1	77.9
								Open 130763	HILSD230 230 130768 WATRC230	230 1			-0.12851	0.00000	0.5	0.5
			23186	2594.1	6814		L:130764	MEYER230	230 131122 WTHRS230 230 1	-272.0	-540.0	-0.10332		-0.08347	-242.2	-458.7
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			-0.07130	0.27848	418.2	1140.6
			23195	2597.7	6817.6		L:130767	STOLE230	230 130770 SHLDN230 230 1	285.3	540.0	0.09806		0.08323	221.3	437.5
								C:SER:HCW								
								Open 130757	WATRC345 345 200769 HOMER CY	345 1			-0.11956	-0.11389	-547.8	-843.7
								Open 130836	N.WAV115 115 200676 E.SAYRE	115 1			-0.03820	-0.03203	40.8	-42.4
			23210	2605.3	6825.2		L:130750	COOPC345	345 130753 FRASR345 345 1	-1089.6	-1703.0	-0.23543		-0.22216	-993.8	-1572.6
								C:126294								
								Open 126294	PLTVLLEY 345 137455 ATHENS	345 1			0.07718	-0.17197	-1241.5	-1689.5
			23215	2606.1	6826		L:135861	MORTIMER	115 135873 SWDN-111 115 1	-54.0	-153.0	-0.03800		-0.02548	-35.1	-101.5
								C:147834								
								Open 147834	NIAG 345 345 149000 ROCH 345	345 1			-0.04499	0.27848	418.2	1143.9
			23221	2607.6	6827.5		L:135452	LOCKPORT	115 135851 SHEL-113 115 1	98.4	180.0	0.03128		0.02435	79.8	143.3
								C:130754								
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.03569	0.19408	521.8	1027.8
			23462	2626.6	6846.5		L:130767	STOLE230	230 130770 SHLDN230 230 1	286.1	540.0	0.09668		0.08323	221.3	439.9
								C:130757								
								Open 130757	WATRC345 345 200769 HOMER CY	345 1			-0.11817	-0.11389	-547.8	-847.0
			24698	2637.5	6857.4		L:131018	LOUN115	115 131850 CNYOG115 115 1	47.3	143.0	0.03630		0.03549	17.2	110.8
								C:130755								
								Open 130755	OAKDL345 345 131128 LAPEER	345 1			-0.05020	-0.01619	-599.0	-641.7
			24703	2638.1	6858		L:137200	EDIC	345 137452 N.SCOT77 345 1	1117.8	1724.0	0.22977		0.17278	820.4	1276.2





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24842	2685.7	6905.6		L:130815	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	195.3	280.0	0.03152	0.15025	0.05180	66.2	204.9
								HINMN115	115 135452 LOCKPORT 115 1					0.02477	170.5	237.0
								C:130766	224							
			24847	2687.4	6907.3		L:135859	Open 130766	ROBIN230 230 130767 STOLE230 230 1	87.4	173.0	0.03184	0.26884	0.02512	92.6	160.0
								LAPPINS1	115 135866 NLEROYTA 115 1					0.02843	77.9	154.3
								C:130770	228							
			24851	2691.1	6911		L:130848	Open 130770	SHLDN230 230 131122 WTHRS230 230 1	-45.3	-143.0	-0.03630	0.04101	0.08335	231.9	455.9
								S.OWE115	115 131850 CNYOG115 115 1					-0.03549	-15.2	-110.7
								C:130755	209							
			24856	2694.6	6914.5		L:135859	Open 130755	OAKDL345 345 131128 LAPEER 345 1	75.9	173.0	0.03604	0.05020	-0.01619	-599.0	-642.6
								LAPPINS1	115 135866 NLEROYTA 115 1					0.02843	77.9	154.5
								C:130754	204							
			24858	2696	6915.9		L:130770	Open 130754	KINTI345 345 147834 NIAG 345 345 1	261.8	540.0	0.10321	-0.04136	-0.18401	48.6	-447.2
								SHLDN230	230 131122 WTHRS230 230 1					0.08335	231.9	456.7
								C:147834	226							
			24861	2699.1	6919		L:130848	Open 147834	NIAG 345 345 149000 ROCH 345 345 1	-26.2	-143.0	-0.04327	0.07130	0.27848	418.2	1168.9
								S.OWE115	115 131850 CNYOG115 115 1					-0.03549	-15.2	-111.0
								C:130768	227							
			24868	2701.6	6921.5		L:135859	Open 130768	WATRC230 230 130772 SHRED230 230 1	87.0	173.0	0.03184	-0.15025	0.05180	73.0	212.8
								LAPPINS1	115 135866 NLEROYTA 115 1					0.02843	77.9	154.7
								C:130767	226							
			24881	2704.7	6924.6		L:137451	Open 130767	STOLE230 230 130770 SHLDN230 230 1	-860.4	-1331.0	-0.17398	0.04101	0.08323	221.3	446.2
								LEEDS 3	345 137453 N.SCOT99 345 2							
								Base Case								
			24895	2715	6934.9		L:130848	Open 130765	OAKDL230 230 130772 SHRED230 230 1	-25.5	-143.0	-0.04327	-0.15025	0.05180	73.0	213.6
								S.OWE115	115 131850 CNYOG115 115 1					0.00000	6.8	6.8
								C:SER:OAK	595							
			24904	2721.7	6941.6		L:130848	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	-25.2	-143.0	-0.04327	0.10159	0.00000	6.8	6.8
								S.OWE115	115 131850 CNYOG115 115 1					-0.03549	-15.2	-111.8
								C:130765	222							
			24906	2722.2	6942.1		L:130815	Open 130765	OAKDL230 230 130772 SHRED230 230 1	-219.0	-306.0	-0.03194	0.15025	-0.05180	-66.5	-207.5
								HINMN115	115 131611 HARIS115 115 1					-0.02411	-198.0	-263.6
								C:130754	205							
			24907	2722.3	6942.2		L:131018	Open 130754	KINTI345 345 149000 ROCH 345 345 1	-20.9	143.0	0.06019	-0.04038	0.19408	521.8	1050.1
								LOUNS115	115 131850 CNYOG115 115 1					0.03549	17.2	113.8
								C:130763	219							
			24908	2722.6	6942.5		L:130848	Open 130763	HILSD230 230 130768 WATRC230 230 1	-25.2	-143.0	-0.04327	0.19958	0.12377	-190.6	146.3
								S.OWE115	115 131850 CNYOG115 115 1					-0.03549	-15.2	-111.9
								C:130765	223							
			24909	2723.6	6943.5		L:130750	Open 130765	OAKDL230 230 130838 OAKDL115 115 1	-1060.5	-1703.0	-0.23589	-0.15025	0.05180	66.2	207.3
								COOPC345	345 130753 FRASR345 345 1					-0.22216	-993.8	-1598.9
								C:125000	1							
			24917	2726.5	6946.4		L:130848	Open 125000	HURLEY 3 345 125002 ROSETON 345 1	-15.2	-112.0	-0.03549	-0.10122	0.13569	659.1	1028.7
								S.OWE115	115 131850 CNYOG115 115 1							
			24926	2734.1	6954		L:130815	Open 130766	ROBIN230 230 130767 STOLE230 230 1	-222.2	-306.0	-0.03067	-0.02411	-198.0	-263.9	
								HINMN115	115 131611 HARIS115 115 1							
								C:130766	224							
			24927	2735.4	6955.4		L:130753	Open 130766	ROBIN230 230 130767 STOLE230 230 1	-888.0	-1380.0	-0.17986	-0.26115	0.02512	92.6	161.3
								FRASR345	345 137200 EDIC 345 1					-0.09129	-712.0	-961.7
								C:130753	200							
			24932	2738.7	6958.6		L:137451	Open 130753	FRASR345 345 130755 OAKDL345 345 1	-1313.8	-1912.0	-0.21844	0.31098	-0.28478	-566.1	-1345.1
								LEEDS 3	345 147831 GILB 345 345 1					-0.15578	-915.6	-1342.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
							C:BUS:N.S	616								
							Open 137453 N.SCOT99	345 147831 GILB 345	345 1				0.62610	-0.03236	-307.4	-396.0
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				0.16119	-0.18542	-917.3	-1425.1
							Open 137453 N.SCOT99	345 137516 N.SCOT1	115 1				0.03268	0.00046	120.3	121.5
							Open 137451 LEEDS 3	345 137453 N.SCOT99	345 2				0.07200	-0.17398	-860.4	-1336.9
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.10447	0.00000	1.6	1.6
			24947	2754.6	6974.5		L:130848 S.OWE115	115 131850 CNYOG115	115 1	22.8	-143.0	-0.06019		-0.03549	-15.2	-113.0
							C:130763	219								
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.19958	0.12377	-190.6	150.3
			24962	2761.1	6981		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
							C:SIN:430	683								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01700	1505.3	1458.4
			24963	2761.1	6981		L:125001 ROCK TAV	345 126297 RAMAPO	345 1	1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
							C:125002	10								
							Open 125002 ROSETON	345 126281 FISHKILL	345 1				0.37909	-0.01700	1505.3	1458.4
			25029	2793.9	7013.8		L:130815 HINMN115	115 135452 LOCKPORT	115 1	191.0	280.0	0.03185		0.02477	170.5	239.7
							C:130764	221								
							Open 130764 MEYER230	230 131122 WTHRS230	230 1				-0.08488	-0.08347	-242.2	-475.4
			25088	2802.4	7022.3		L:130767 STOLE230	230 130770 SHLDN230	230 1	251.1	540.0	0.10308		0.08323	221.3	454.5
							C:147834	226								
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.07130	0.27848	418.2	1198.6
			25092	2803	7022.9		L:130750 COOPC345	345 130753 FRASR345	345 1	-1047.7	-1703.0	-0.23379		-0.22216	-993.8	-1616.5
							C:BUS:N.S	615								
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.03869	-0.04334	-242.4	-363.9
							Open 137452 N.SCOT77	345 137516 N.SCOT1	115 1				0.01601	0.00032	113.3	114.2
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				-0.05550	0.17278	820.4	1304.7
							Open 137450 ALPS345	345 137452 N.SCOT77	345 1				0.00921	-0.04086	-84.4	-199.0
							Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1				-0.01098	0.00000	0.0	0.0
			25106	2803.8	7023.7		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.4	173.0	0.03126		0.02843	77.9	157.6
							C:135850	673								
							Open 135850 SOUR-114	115 135876 TELRDTP1	115 1				-0.11295	-0.02506	-66.0	-136.3
			25206	2808	7028		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	85.9	173.0	0.03101		0.02843	77.9	157.7
							C:135452	599								
							Open 135452 LOCKPORT	115 135872 SOUR-111	115 1				0.10725	0.02407	74.8	142.4
			26113	2811.9	7031.8		L:135452 LOCKPORT	115 135872 SOUR-111	115 1	73.1	159.0	0.03056		0.02407	74.8	142.5
							C:130754	204								
							Open 130754 KINTI345	345 147834 NIAG 345	345 1				-0.03527	-0.18401	48.6	-468.8
			26120	2812	7031.9		L:130764 MEYER230	230 131122 WTHRS230	230 1	-273.0	-540.0	-0.09495		-0.08347	-242.2	-476.9
							C:130754	205								
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				-0.05915	0.19408	521.8	1067.5
			26232	2812.5	7032.4		L: Interface 59 MarcySouthS			1935.4	3048.0	0.39561		0.35766	1733.8	2739.7
							C:BUS:N.S	616								
							Open 137453 N.SCOT99	345 147831 GILB 345	345 1				-0.09642	-0.03236	-307.4	-398.4
							Open 137453 N.SCOT99	345 147833 MARCY T1	345 1				-0.15078	-0.18542	-917.3	-1438.8
							Open 137453 N.SCOT99	345 137516 N.SCOT1	115 1				-0.00329	0.00046	120.3	121.6
							Open 137451 LEEDS 3	345 137453 N.SCOT99	345 2				-0.03947	-0.17398	-860.4	-1349.7
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				0.02283	0.00000	1.6	1.6
			26428	2815	7034.9		L:130764 MEYER230	230 131122 WTHRS230	230 1	-307.8	-540.0	-0.08250		-0.08347	-242.2	-477.1
							C:BUS:WAT	633								
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.06554	-0.11389	-547.8	-868.4
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.11714	-0.07197	264.1	61.5
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.05466	0.00000	22.7	22.7
			26508	2819	7038.9		L:135859 LAPPINS1	115 135866 NLEROYTA	115 1	84.3	173.0	0.03148		0.02843	77.9	158.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:135850	672							
								Open 135850	SOUR-114 115 135861 MORTIMER	115 1			0.12194	0.02506	52.0	122.7
			26512	2819.2	7039.1	*	L:135859	LAPPINS1	115 135866 NLEROYTA	115 1	85.6	173.0	0.03101	0.02843	77.9	158.0
								C:135872	706							
								Open 135872	SOUR-111 115 135873 SWDN-111	115 1			0.10725	0.02407	71.5	139.4
			26532	2822	7041.9		L:130815	HINMN115	115 135452 LOCKPORT	115 1	190.1	280.0	0.03184	0.02477	170.5	240.3
								C:130770	228							
								Open 130770	SHLDN230 230 131122 WTHRS230	230 1			0.08488	0.08335	231.9	467.2
			26608	2833.2	7053.1		L: Interface	32 F-To-G			4206.2	6118.0	0.67479	0.56513	3715.6	5316.7
								C:130750	192							
								Open 130750	COOPC345 345 130753 FRASR345	345 1			-0.49363	-0.22216	-993.8	-1623.2
			26652	2841.6	7061.5		L:130815	HINMN115	115 131611 HARIS115	115 1	-217.9	-306.0	-0.03099	-0.02411	-198.0	-266.5
								C:130764	221							
								Open 130764	MEYER230 230 131122 WTHRS230	230 1			0.08245	-0.08347	-242.2	-479.3
			26716	2850.3	7070.2		L:136150	CLAY	345 137200 EDIC	345 2	770.0	1434.0	0.23297	0.17531	579.4	1079.1
								C:136150	715							
								Open 136150	CLAY 345 137200 EDIC	345 1			0.33000	0.17473	577.6	1075.6
			26727	2851.3	7071.2		L:130815	HINMN115	115 135452 LOCKPORT	115 1	189.2	280.0	0.03183	0.02477	170.5	241.1
								C:130767	226							
								Open 130767	STOLE230 230 130770 SHLDN230	230 1			0.08488	0.08323	221.3	458.6
			28167	2863.8	7083.7		L:136150	CLAY	345 137200 EDIC	345 1	768.3	1434.0	0.23245	0.17473	577.6	1077.9
								C:136150	716							
								Open 136150	CLAY 345 137200 EDIC	345 2			0.32926	0.17531	579.4	1081.4
			28220	2869.7	7089.6		L:130815	HINMN115	115 131611 HARIS115	115 1	-217.1	-306.0	-0.03098	-0.02411	-198.0	-267.2
								C:130770	228							
								Open 130770	SHLDN230 230 131122 WTHRS230	230 1			-0.08245	0.08335	231.9	471.1
			28224	2870.2	7090.1	*	L:130750	COOPC345	345 130753 FRASR345	345 1	-1027.3	-1703.0	-0.23543	-0.22216	-993.8	-1631.4
								C:137451	6							
								Open 137451	LEEDS 3 345 137455 ATHENS	345 1			-0.07718	0.17197	433.7	927.3
			28256	2884	7103.9		L:130764	MEYER230	230 131122 WTHRS230	230 1	-256.6	-540.0	-0.09828	-0.08347	-242.2	-482.9
								C:LKWANA-	652							
								Open 417	OXBOW 230 3070 LACKAWNA	230 1			0.11660	-0.12699	-123.7	-489.9
			28287	2899	7118.9		L:130815	HINMN115	115 131611 HARIS115	115 1	-216.2	-306.0	-0.03097	-0.02411	-198.0	-267.9
								C:130767	226							
								Open 130767	STOLE230 230 130770 SHLDN230	230 1			-0.08245	0.08323	221.3	462.6
			28292	2902.5	7122.4		L: Interface	59 MarcySouthS			1810.7	3048.0	0.42629	0.35766	1733.8	2771.9
								C:130753	203							
								Open 130753	FRASR345 345 147831 GILB 345	345 1			0.36478	0.18814	210.7	756.8
			28314	2917.8	7137.7		L:135872	SOUR-111	115 135873 SWDN-111	115 1	69.8	159.0	0.03056	0.02407	71.5	141.8
								C:130754	204							
								Open 130754	KINTI345 345 147834 NIAG 345	345 1			-0.03527	-0.18401	48.6	-488.3
			28327	2921.1	7141		L:135851	SHEL-113	115 135874 SWDN-113	115 1	88.6	180.0	0.03128	0.02436	70.0	141.1
								C:130754	205							
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.03569	0.19408	521.8	1088.7
			28333	2923.1	7143		L:130770	SHLDN230	230 131122 WTHRS230	230 1	262.8	540.0	0.09483	0.08335	231.9	475.6
								C:130754	205							
								Open 130754	KINTI345 345 149000 ROCH 345	345 1			0.05915	0.19408	521.8	1089.1
			28338	2930.8	7150.7		L:137453	N.SCOT99	345 147833 MARCY T1	345 1	-1122.6	-1792.0	-0.22839	-0.18542	-917.3	-1460.7
								C:BUS:N.S	615							
								Open 137452	N.SCOT77 345 137453 N.SCOT99	345 1			-0.09197	-0.04334	-242.4	-369.4
								Open 137452	N.SCOT77 345 137516 N.SCOT1	115 1			0.02619	0.00032	113.3	114.3
								Open 137200	EDIC 345 137452 N.SCOT77	345 1			-0.28818	0.17278	820.4	1326.8
								Open 137450	ALPS345 345 137452 N.SCOT77	345 1			-0.06914	-0.04086	-84.4	-204.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28342	2934.2	7154.1		Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1	670.4	1524.0	0.29091	0.13842	0.00000	0.0	0.0
							L:130753 FRASR345	345 147831 GILB 345	345 1						210.7	762.7
							C:130750		192							
			28348	2940	7159.9	*	Open 130750 COOPC345	345 130753 FRASR345	345 1	38.9	143.0	0.03539	-0.46259	-0.22216	-993.8	-1645.6
							L:131018 LOUNSI15	115 131850 CNYOG115	115 1						17.2	121.5
							C:131128		392							
			28353	2943	7162.9		Open 131128 LAPBER	345 136153 LAFAYTTE	345 1	297.5	540.0	0.08238	-0.03223	0.00296	-675.2	-666.5
							L:130770 SHLDN230	230 131122 WTHRS230	230 1						231.9	477.2
							C:BUS:WAT		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.06554	-0.11389	-547.8	-883.0
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.11714	-0.07197	264.1	52.3
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.05466	0.00000	22.7	22.7
			28360	2947.3	7167.2		L:135850 SOUR-114	115 135876 TELRDTP1	115 1	-85.1	-180.0	-0.03218		-0.02506	-66.0	-139.8
							C:130754		205							
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				-0.03671	0.19408	521.8	1093.8
			28361	2947.5	7167.4		L: Interface 59	MarcySouthS		1893.6	3048.0	0.39165		0.35766	1733.8	2788.1
							C:BUS:N.S		615							
							Open 137452 N.SCOT77	345 137453 N.SCOT99	345 1				-0.06563	-0.04334	-242.4	-370.1
							Open 137452 N.SCOT77	345 137516 N.SCOT1	115 1				-0.04917	0.00032	113.3	114.3
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				0.18354	0.17278	820.4	1329.7
							Open 137450 ALPS345	345 137452 N.SCOT77	345 1				0.01360	-0.04086	-84.4	-204.9
							Open 137451 LEEDS 3	345 137452 N.SCOT77	345 1				-0.01140	0.00000	0.0	0.0
			28366	2954.1	7174		L:135858 GOLAH115	115 135862 MUMFORD1	115 1	-63.5	-173.0	-0.03707		-0.02891	-41.6	-126.9
							C:130754		205							
							Open 130754 KINTI345	345 149000 ROCH 345	345 1				-0.04206	0.19408	521.8	1095.1
			28367	2955	7174.9		L:137200 EDIC	345 137452 N.SCOT77	345 1	820.4	1331.0	0.17278				
							Base Case									
			28369	2955.9	7175.8		L:130794 DELHI115	115 130838 OAKDL115	115 1	-73.8	-179.0	-0.03560		-0.01879	-40.4	-95.9
							C:130753		200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.05900	-0.28478	-566.1	-1407.9
			28372	2963	7182.9		L: Interface 19	PJM-NY		2403.4	3114.0	0.23984		0.23984	1506.8	2217.4
							C:GEN:SEA		576							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			28373	2963	7182.9		L: Interface 35	NY-PJM		-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4
							C:GEN:SEA		576							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			28374	2963	7182.9		L: Interface 19	PJM-NY		2403.4	3114.0	0.23984		0.23984	1506.8	2217.4
							C:GEN:SEA		574							
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			28375	2963	7182.9		L: Interface 35	NY-PJM		-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4
							C:GEN:SEA		574							
							Remove unit 1 from bus 102869 SBRK G1		25.0	1318.0	MW dispatch					
			28382	2971.9	7191.8		L:137451 LEEDS 3	345 137455 ATHENS	345 1	983.5	1725.0	0.24949		0.17197	433.7	944.8
							C:126294		120							
							Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2				-0.42902	-0.18071	-1281.5	-1818.6
			28385	2980.8	7200.7		L: Interface 19	PJM-NY		2399.1	3114.0	0.23984		0.23984	1506.8	2221.7
							C:SIN:250		678							
							Open 100508 SANDB115	115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3		24.0	1276.0	MW dispatch					
			28386	2980.8	7200.7		L: Interface 35	NY-PJM		-2399.1	-3114.0	-0.23984		-0.23984	-1506.8	-2221.7
							C:SIN:250		678							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 100508	SANDB115 115 100509 SB RCTOR	115 2			0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28390	2985	7204.9		L:146769	RAMP138	138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:SIN:440	684							
								Open 125001	ROCK TAV 345 126297 RAMAPO	345 1			-0.14310	0.22243	1116.0	1779.9
			28391	2985	7204.9		L:146769	RAMP138	138 146773 SGRLF138 138 2	-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:125001	7							
								Open 125001	ROCK TAV 345 126297 RAMAPO	345 1			-0.14310	0.22243	1116.0	1779.9
			28392	2988.2	7208.1		L:130836	N.WAV115	115 131018 LOUNSI115 115 1	-9.7	173.0	0.06113		0.03549	20.7	126.8
								C:BUS:WAT	634							
								Open 130768	WATRC230 230 130772 SHRED230	230 1			0.24197	0.05180	73.0	227.8
								Open 130757	WATRC345 345 130768 WATRC230	230 1			-0.18210	-0.07197	264.1	49.0
								Open 130763	HILSD230 230 130768 WATRC230	230 1			0.12851	0.00000	0.5	0.5
			28394	2991.4	7211.4		L:130770	SHLDN230	230 131122 WTHRS230 230 1	246.4	540.0	0.09816		0.08335	231.9	481.3
								C:LKWANA-	652							
								Open 417	OXBOW 230 3070 LACKAWNA	230 1			-0.11660	-0.12699	-123.7	-503.5
			28397	2992.7	7212.6		L:130768	WATRC230	230 130772 SHRED230 230 1	140.7	440.0	0.10001		0.05180	73.0	228.0
								C:130755	206							
								Open 130755	OAKDL345 345 130757 WATRC345	345 1			-0.25937	-0.18586	-261.1	-817.3
			28400	2994.9	7214.8	*	L:130848	S.OWE115	115 131850 CNYOG115 115 1	-37.0	-143.0	-0.03539		-0.03549	-15.2	-121.5
								C:131128	392							
								Open 131128	LAPEER 345 136153 LAFAYTTE	345 1			0.03223	0.00296	-675.2	-666.4

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:17 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33732  
 First violation - -168790.9 MW.

Interface-1 Interface 32 F-To-G Init.Flow= 3715.64 TDF= 0.5651

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_E_EXP	GHI_IMPORT	3000.0	1	-168790	-91672.7		L: Interface 21 PJM-WEST		606	5144.2	0.0	0.03048		0.04851	5119.7	-3068.1
							C:SER:C398/NWES1									
							Open 409 GROVER	230 200675 E.TWANDA	230 1				0.06508	0.00121	-15.5	-220.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17331	-0.07681	116.1	13081.4
							Open 381 TOWANDA	115 200675 E.TWANDA	230 1				0.01303	-0.00624	-52.6	1001.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.14729	-0.03203	40.8	5446.7
			2	-168568	-91546.8		L: Interface 21 PJM-WEST		607	5145.8	0.0	0.03053		0.04851	5119.7	-3057.3
							C:SER:ETHS/NWES1									
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.17129	-0.07681	116.1	13064.3
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.15067	-0.03203	40.8	5439.6
			3	-150404	-81282.2		L: Interface 21 PJM-WEST		650	5140.3	0.0	0.03418		0.04851	5119.7	-2176.2
							C:ETHS/LLGD1									
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.13790	-0.07681	116.1	11669.1
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.12173	-0.03072	37.4	4658.5
			4	-131914	-70833		L: Interface 21 PJM-WEST		375	5134.2	0.0	0.03892		0.04851	5119.7	-1279.3
							C:130763 HILSD230	230 200675 E.TWANDA								
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.12483	-0.07681	116.1	10248.8
			5	-124161	-66451.1		L: Interface 21 PJM-WEST		219	5130.8	0.0	0.04132		0.04851	5119.7	-903.2
							C:130763 HILSD230	230 130768 WATRC230								
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.05805	0.12377	-190.6	-15557.8
			6	-121885	-65165.2		L: Interface 21 PJM-WEST		634	5137.5	0.0	0.04215		0.04851	5119.7	-792.8
							C:BUS:WATERCURE_2301									
							Open 130768 WATRC230	230 130772 SHRED230	230 1				-0.02068	0.05180	73.0	-6240.8
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.07347	-0.07197	264.1	9035.8
							Open 130763 HILSD230	230 130768 WATRC230	230 1				-0.18954	0.00000	0.5	0.5
			7	-118791	-63416.8		L: Interface 21 PJM-WEST		657	5050.1	0.0	0.04251		0.04851	5119.7	-642.7
							C:MULT041									
							Open 9 JUNIATA	500 21 SUNBURY	500 1				-0.13385	0.04394	526.9	-4693.3
							Open 21 SUNBURY	500 3084 SUNBURY	230 24				-0.00697	0.01650	-120.9	-2080.7
			8	-117669	-62782.5		L: Interface 21 PJM-WEST		213	5137.5	0.0	0.04366		0.04851	5119.7	-588.3
							C:130757 WATRC345	345 130768 WATRC230								
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.06737	-0.07197	264.1	8732.4
			9	-113038	-60165.2		L: Interface 21 PJM-WEST		601	5189.8	0.0	0.04591		0.04851	5119.7	-363.6
							C:SER:HC-SR_37&W-F_1711									
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.17843	0.01428	-377.8	-1992.1
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.07359	0.00066	-35.9	-110.9
			10	-112373	-59789.5*		L: Interface 21 PJM-WEST		380	5182.9	0.0	0.04612		0.04851	5119.7	-331.4
							C:135398 SW345	345 200769 HOMER CY								
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.16713	0.01428	-377.8	-1982.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			1756	-76536.8	-39537.4		L: Interface	20 PJM-CENT		3534.1	0.0	0.04617		0.10355	3274.5	-4651.1
							C:126260 BOWLINE1	345 146750 WHAV345	79							
							Open	126260 BOWLINE1 345 146750 WHAV345	345 10				-0.55144	0.10405	-470.6	-8434.6
			1762	-58763.2	-29493		L: Interface	20 PJM-CENT		3475.2	0.0	0.05914		0.10355	3274.5	-2810.6
							C:SIN:301		666							
							Open	126260 BOWLINE1 345 146841 BOWL 20.0 1	NA							
							Open	126260 BOWLINE1 345 146750 WHAV345	345 10				-0.42591	0.10405	-470.6	-6585.2
							Open	126290 LADENTWN 345 146750 WHAV345	345 1				-0.00103	0.09522	-170.9	-5766.1
			1763	-52472.9	-25938.2		L: Interface	20 PJM-CENT		3233.7	0.0	0.06163		0.10355	3274.5	-2159.2
							C:LKWANA-OXBWL		652							
							Open	417 OXBOW 230 3070 LACKAWNA	230 1				0.33015	-0.12699	-123.7	6540.0
			1764	-50407.2	-24770.8		L: Interface	20 PJM-CENT		3327.1	0.0	0.06600		0.10355	3274.5	-1945.3
							C:ETHS/NWES/LLGD1		649							
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				0.28217	-0.07681	116.1	3988.0
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				0.25854	-0.03203	40.8	1655.2
							Open	130807 GOUDY115 115 200680 LAUREL L	115 1				0.24719	-0.03072	37.4	1586.1
			1765	-42325.9	-20203.9		L: Interface	20 PJM-CENT		3308.8	0.0	0.07817		0.10355	3274.5	-1108.5
							C:SER:C398/NWES1		606							
							Open	409 GROVER 230 200675 E.TWANDA	230 1				0.09832	0.00121	-15.5	-66.9
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				0.24421	-0.07681	116.1	3367.2
							Open	381 TOWANDA 115 200675 E.TWANDA	230 1				0.01929	-0.00624	-52.6	211.7
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				0.20672	-0.03203	40.8	1396.4
			1766	-42317	-20198.8		L: Interface	20 PJM-CENT		3311.2	0.0	0.07825		0.10355	3274.5	-1107.5
							C:SER:ETHS/NWES1		607							
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				0.24118	-0.07681	116.1	3366.5
							Open	130836 N.WAV115 115 200676 E.SAYRE	115 1				0.21172	-0.03203	40.8	1396.1
			1767	-39597.7	-18662.1		L: Interface	20 PJM-CENT		3303.4	0.0	0.08342		0.10355	3274.5	-825.9
							C:ETHS/LLGD1		650							
							Open	130763 HILSD230 230 200675 E.TWANDA	230 1				0.19413	-0.07681	116.1	3157.7
							Open	130807 GOUDY115 115 200680 LAUREL L	115 1				0.16981	-0.03072	37.4	1254.0
			1768	-38348.8	-17956.3		L: Interface	20 PJM-CENT		3971.1	0.0	0.10355		0.10355	3274.5	-696.6
							C:GEN:PEACHBTM1		569							
							Remove unit 1 from bus	34 PCHBTM 2 22.0 1059.5 MW dispatch								
			1769	-37854.9	-17677.2		L: Interface	20 PJM-CENT		3920.0	0.0	0.10355		0.10355	3274.5	-645.5
							C:GEN:SALEM1		568							
							Remove unit 1 from bus	36 SALEM-G1 22.0 1117.3 MW dispatch								
			1770	-36632.7	-16986.5*		L: Interface	20 PJM-CENT		3793.4	0.0	0.10355		0.10355	3274.5	-518.9
							C:SIN:2501		678							
							Open	100508 SANDB115 115 100509 SB RCTOR	115 2				-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus	103563 MILL#3 24.0 1276.0 MW dispatch								
			3525	-7164.1	-333		L: Interface	47 C-PJWest		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.25046	-0.18586	-261.1	1070.4
			3526	-7164.1	-333		L: Interface	48 PJMWest-C		482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.25046	-0.18586	-261.1	1070.4
			3527	-7164.1	-333		L: Interface	60 C2PJM		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.25046	-0.18586	-261.1	1070.4
			3528	-7164.1	-333		L: Interface	61 PJMC2C		482.4	0.0	0.06734		0.11389	547.8	-268.1
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.25046	-0.18586	-261.1	1070.4
			3529	-5962	346.3		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1201		668							
							Open	126263 BUCHANAN S 345 126291 MILLWOOD	345 1				0.00650	-0.13991	785.6	1619.8
							Open	126263 BUCHANAN S 345 126291 MILLWOOD	345 2				0.00650	-0.13991	785.6	1619.8
							Open	126263 BUCHANAN S 345 126290 LADENTWN	345 1				-0.04989	0.23158	39.8	-1340.9



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3530	-5962	346.3		L: Interface 60 C2PJMJC			-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3531	-5962	346.3		L: Interface 47 C-PJMWest			-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3532	-5962	346.3		L: Interface 47 C-PJMWest			-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3533	-5962	346.3		L: Interface 48 PJMWest-C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3534	-5962	346.3		L: Interface 61 PJMWest-C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3535	-5962	346.3		L: Interface 48 PJMWest-C			599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3536	-5962	346.3		L: Interface	Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch 60 C2PJMC		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
								C:SIN:1301	669							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2	NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3537	-5810.5	431.9		L: Interface	47 C-PJMWest		-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.10467	-0.28478	-566.1	1088.6
			3538	-5810.5	431.9		L: Interface	60 C2PJMC		-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.10467	-0.28478	-566.1	1088.6
			3539	-5810.5	431.9		L: Interface	48 PJMWest-C		488.6	0.0	0.08408		0.11389	547.8	-113.9
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.10467	-0.28478	-566.1	1088.6
			3540	-5810.5	431.9		L: Interface	61 PJMC2C		488.6	0.0	0.08408		0.11389	547.8	-113.9
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.10467	-0.28478	-566.1	1088.6
			3541	-5627.1	535.6		L: Interface	48 PJMWest-C		589.2	0.0	0.10470		0.11389	547.8	-93.1
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.03968	0.23158	-1041.8	-2344.9
			3542	-5627.1	535.6		L: Interface	47 C-PJMWest		-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.03968	0.23158	-1041.8	-2344.9
			3543	-5627.1	535.6		L: Interface	60 C2PJMC		-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.03968	0.23158	-1041.8	-2344.9
			3544	-5627.1	535.6		L: Interface	61 PJMC2C		589.2	0.0	0.10470		0.11389	547.8	-93.1
								C:GEN:IND PT 3-New1	774							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.03968	0.23158	-1041.8	-2344.9
			3545	-5586	558.8		L: Interface	48 PJMWest-C		621.0	0.0	0.11117		0.11389	547.8	-88.4
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY 345 1					-0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.06273	0.00066	-35.9	-39.6
			3546	-5586	558.8		L: Interface	47 C-PJMWest		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY 345 1					0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.06273	0.00066	-35.9	-39.6
			3547	-5586	558.8		L: Interface	61 PJMC2C		621.0	0.0	0.11117		0.11389	547.8	-88.4
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY 345 1					-0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.06273	0.00066	-35.9	-39.6
			3548	-5586	558.8		L: Interface	60 C2PJMC		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY 345 1					0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.06273	0.00066	-35.9	-39.6
			3549	-5575.3	564.9		L: Interface	60 C2PJMC		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-1138.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3550	-5575.3	564.9		L: Interface 48 PJMWest-C	Open 126288 IP2 345 345 126651 IND PT 2 22.0 2		586.8	0.0	0.10525	0.03827	0.22576	-1018.5	-2277.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2277.2
			3551	-5575.3	564.9		L: Interface 47 C-PJMWest			-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.03827	0.22576	-1018.5	-2277.2
			3552	-5575.3	564.9		L: Interface 61 PJMWest			586.8	0.0	0.10525		0.11389	547.8	-87.2
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1138.6
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2277.2
			3553	-5549.4	579.5		L: Interface 48 PJMWest-C			634.0	0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1	NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3554	-5549.4	579.5		L: Interface 60 C2PJM			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1	NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3555	-5549.4	579.5		L: Interface 47 C-PJMWest			-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00782	624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00680	543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 765 765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3556	-5549.4	579.5		L: Interface 61 PJMC2C		634.0		0.0	0.11425		0.11389	547.8	-84.2
							C:HQ-NY-765-New1	777								
							Open 147827 MARCY765 765 147828 MASS 765 765 1	NA								
							Open 147828 MASS 765 765 180819 CHA-NY 765 1	NA								
							Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.02482	0.00782		624.3	580.8
							Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.02482	0.00680		543.3	505.5
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1	NA								
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00731		10.7	51.3
							Open 147828 MASS 765 765 147838 MASS230B 230 1	NA								
							Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.05509	0.00000		18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1	NA								
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1	NA								
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1	NA								
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3557	-5524.2	593.8		L: Interface 47 C-PJWest		-615.1		0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1					0.17807	0.01428		-377.8	-456.7
			3558	-5524.2	593.8		L: Interface 60 C2PJMC		-615.1		0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1					0.17807	0.01428		-377.8	-456.7
			3559	-5524.2	593.8		L: Interface 61 PJMC2C		615.1		0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1					-0.17807	0.01428		-377.8	-456.7
			3560	-5524.2	593.8		L: Interface 48 PJWest-C		615.1		0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345 345 200769 HOMER CY 380									
							Open 135398 SW345 345 200769 HOMER CY 345 1					-0.17807	0.01428		-377.8	-456.7
			3561	-5517.4	597.6*		L: Interface 60 C2PJMC		-628.4		0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3562	-5517.4	597.6*		L: Interface 48 PJWest-C		628.4		0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3563	-5517.4	597.6*		L: Interface 47 C-PJWest		-628.4		0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3564	-5517.4	597.6*		L: Interface 61 PJMC2C		628.4		0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21 562									
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			3601	-5252.6	747.3		L: Interface 55 PJME-NYEnORE		1498.1	1287.0	0.04020		0.00000	1299.4	1299.4	
							C:SER:HC-WC_30&W-F.1711 602									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.35376	-0.11389		-547.8	50.4
							Open 135277 FALCONER 115 200579 WARREN 115 1					-0.13836	0.00066		-35.9	-39.3
			3602	-5252.6	747.3		L: Interface 56 NYE-PJMenORE		-1498.1	-1287.0	-0.04020		0.00000	-1299.4	-1299.4	
							C:SER:HC-WC_30&W-F.1711 602									
							Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.35376	-0.11389		-547.8	50.4
							Open 135277 FALCONER 115 200579 WARREN 115 1					0.13836	0.00066		-35.9	-39.3
			3635	-5118.8	822.9		L: Interface 55 PJME-NYEnORE		1492.4	1287.0	0.04012		0.00000	1299.4	1299.4	



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.12796	-0.07681	116.1	378.6
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.13032	-0.03203	40.8	150.3
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.12541	-0.03072	37.4	142.4
			10600	-3289.2	1856.8		L: Interface 26 ONTARIO-MICH			750.6	0.0	0.22819		0.23984	733.8	-55.1
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10716	-0.07681	116.1	368.7
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10657	-0.03203	40.8	146.2
			10601	-3288.8	1857.1		L: Interface 26 ONTARIO-MICH			750.4	0.0	0.22818		0.23984	733.8	-55.0
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						0.00016	0.00121	-15.5	-19.5
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10740	-0.07681	116.1	368.7
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						0.00252	-0.00624	-52.6	-32.1
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10591	-0.03203	40.8	146.2
			10602	-3235.9	1887		L: Interface 26 ONTARIO-MICH			746.7	0.0	0.23076		0.23984	733.8	-42.3
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.08358	-0.07681	116.1	364.6
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.08640	-0.03072	37.4	136.8
			10603	-3230.3	1890.1		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.23538		0.23984	733.8	-41.0
							C:W44LCL		643							
							Open 160062 LONGWOOD 220 160074 COWALJ44 220 1						-0.16058	0.02276	189.0	115.5
							Open 160074 COWALJ44 220 160134 BUCHJW44 220 1						-0.00491	-0.00491	334.6	350.4
							Open 160054 BUCHANAN 220 160134 BUCHJW44 220 1						-0.00035	0.00491	-256.3	-272.2
							Open 160055 CHATHAM 220 160074 COWALJ44 220 1						0.71978	0.00000	3.1	3.1
			10604	-3230.1	1890.3		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.23539		0.23984	733.8	-40.9
							C:W45LCL		644							
							Open 160062 LONGWOOD 220 160075 COWALJ45 220 1						-0.16052	0.02274	189.0	115.6
							Open 160075 COWALJ45 220 160135 BUCHJW45 220 1						0.16299	-0.00490	334.4	350.3
							Open 160054 BUCHANAN 220 160135 BUCHJW45 220 1						-0.00035	0.00490	-262.6	-278.4
							Open 160055 CHATHAM 220 160075 COWALJ45 220 1						0.71974	0.00000	3.1	3.1
			10605	-3215.2	1898.6		L: Interface 26 ONTARIO-MICH			770.6	0.0	0.23968		0.23984	733.8	-37.3
							C:131128 LAPEER 345 136153 LAFAYTTE 392									
							Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						-0.05454	0.00296	-675.2	-684.8
			10606	-3200.3	1907.1		L: Interface 26 ONTARIO-MICH			719.0	0.0	0.22467		0.23984	733.8	-33.8
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW 230 3070 LACKAWNA 230 1						0.11942	-0.12699	-123.7	282.8
			10607	-3197.5	1908.7		L: Interface 26 ONTARIO-MICH			770.0	0.0	0.24082		0.23984	733.8	-33.1
							C:130755 OAKDL345 345 131128 LAPEER 209									
							Open 130755 OAKDL345 345 131128 LAPEER 345 1						-0.06047	-0.01619	-599.0	-547.2
			10608	-3178.3	1919.5*		L: Interface 26 ONTARIO-MICH			746.8	0.0	0.23497		0.23984	733.8	-28.5
							C:KEY-SHELOCTA/BLAIRSVL-SOCIAL1		651							
							Open 505 SHELOCTA 230 521 KEYSTONE 230 1						0.08780	-0.04571	48.1	193.3
							Open 473 BLAIRSVL 138 235253 OLSOCIAL 138 1						0.08827	-0.00970	99.7	130.6
			12298	-2956.3	2045		L: Interface 56 NYE-PJMENoRE			-1478.3	-1287.0	-0.06473		0.00000	-1299.4	-1299.4
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.44203	-0.11389	-547.8	-211.1
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.19985	-0.07197	264.1	476.8
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.46005	0.00000	22.7	22.7
			12299	-2956.3	2045		L: Interface 55 PJME-NYENoRE			1478.3	1287.0	0.06473		0.00000	1299.4	1299.4
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.44203	-0.11389	-547.8	-211.1
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.19985	-0.07197	264.1	476.8
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.46005	0.00000	22.7	22.7
			12339	-2729.4	2173.2		L: Interface 51 G-PJMEast			-118.6	0.0	-0.04345		0.00000	-0.3	-0.3
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.29477	-0.11389	-547.8	-237.0
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.13719	-0.07197	264.1	460.5
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.30599	0.00000	22.7	22.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12340	-2729.4	2173.2		L: Interface 52 PJMEast-G			118.6	0.0	0.04345		0.00000	0.3	0.3
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.29477	-0.11389	-547.8	-237.0
							Open 130757 WATRC345 345 130768 WATRC230	230 1					-0.13719	-0.07197	264.1	460.5
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.30599	0.00000	22.7	22.7
			12350	-2537.3	2281.8		L: Interface 62 C2PJMW			-458.4	0.0	-0.18068		-0.25346	-353.6	289.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.66732	-0.07681	116.1	310.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.67169	-0.03203	40.8	122.1
			12351	-2537.3	2281.8		L: Interface 63 PJMW2C			458.4	0.0	0.18068		0.25346	353.6	-289.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.66732	-0.07681	116.1	310.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.67169	-0.03203	40.8	122.1
			12352	-2533.4	2284		L: Interface 62 C2PJMW			-457.5	0.0	-0.18060		-0.25346	-353.6	288.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA	230 1					-0.00111	0.00121	-15.5	-18.6
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.66891	-0.07681	116.1	310.7
							Open 381 TOWANDA 115 200675 E.TWANDA	230 1					-0.01713	-0.00624	-52.6	-36.8
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.66726	-0.03203	40.8	122.0
			12353	-2533.4	2284		L: Interface 63 PJMW2C			457.5	0.0	0.18060		0.25346	353.6	-288.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA	230 1					0.00111	0.00121	-15.5	-18.6
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.66891	-0.07681	116.1	310.7
							Open 381 TOWANDA 115 200675 E.TWANDA	230 1					0.01713	-0.00624	-52.6	-36.8
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.66726	-0.03203	40.8	122.0
			12364	-2244.8	2447		L: Interface 63 PJMW2C			437.0	0.0	0.19466		0.25346	353.6	-215.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.52482	-0.07681	116.1	288.5
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.60169	-0.03072	37.4	106.3
			12365	-2244.8	2447		L: Interface 62 C2PJMW			-437.0	0.0	-0.19466		-0.25346	-353.6	215.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.52482	-0.07681	116.1	288.5
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.60169	-0.03072	37.4	106.3
			12370	-2149.4	2501		L: Interface 55 PJME-NYEnoRE			1451.8	1287.0	0.07669		0.00000	1299.4	1299.4
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					-0.26930	-0.28478	-566.1	46.0
			12371	-2149.4	2501		L: Interface 56 NYE-PJMENoRE			-1451.8	-1287.0	-0.07669		0.00000	-1299.4	-1299.4
							C:130753 FRASR345 345 130755 OAKDL345		200							
							Open 130753 FRASR345 345 130755 OAKDL345	345 1					0.26930	-0.28478	-566.1	46.0
			12374	-2070.6	2545.5		L: Interface 63 PJMW2C			524.8	0.0	0.25346		0.25346	353.6	-171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			12375	-2070.6	2545.5		L: Interface 62 C2PJMW			-524.8	0.0	-0.25346		-0.25346	-353.6	171.2
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			12376	-2063.5	2549.5		L: Interface 62 C2PJMW			-524.2	0.0	-0.25406		-0.25346	-353.6	169.4
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765	765 1	NA							
							Open 147828 MASS 765 765 180819 CHA-NY	765 1	NA							
							Open 147827 MARCY765 765 147833 MARCY T1	345 1					-0.04110	0.00782	624.3	608.1
							Open 147827 MARCY765 765 147833 MARCY T1	345 2					-0.04110	0.00680	543.3	529.3
							Open 156 MCY765SW 0.0 147827 MARCY765	765 1	NA							
							Open 147838 MASS230B 230 147839 MOSES E	230 1					0.00000	-0.00731	10.7	25.8
							Open 147828 MASS 765 765 147838 MASS230B	230 1	NA							
							Open 147837 MASS230A 230 147839 MOSES E	230 1					0.11489	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A	230 1	NA							
							Open 158 MS765SW2 0.0 147828 MASS 765	765 1	NA							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12391	-1844.4	2673.3	*	L: Interface 62 C2PJMw			-467.5	0.0	-0.25346		-0.25346	-353.6	113.9
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch							
			12420	-1660.7	2777.1		L: Interface 55 PJME-NYEnORE			1367.4	1287.0	0.04842		0.00000	1299.4	1299.4
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.26051	-0.18586	-261.1	47.5
			12421	-1660.7	2777.1		L: Interface 56 NYE-PJMEEnORE			-1367.4	-1287.0	-0.04842		0.00000	-1299.4	-1299.4
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.26051	-0.18586	-261.1	47.5
			12495	-1482.1	2878.1		L: Interface 40 ONT-Zoned			46.4	0.0	0.03133		0.00000	-0.6	-0.6
							C:147834 NIAG 345	345 149000 ROCH 345	226							
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				0.11251	0.27848	418.2	5.4
			12496	-1482.1	2878.1		L: Interface 39 ZoneD-ONT			-46.4	0.0	-0.03133		0.00000	0.6	0.6
							C:147834 NIAG 345	345 149000 ROCH 345	226							
							Open 147834 NIAG 345	345 149000 ROCH 345	345 1				-0.11251	0.27848	418.2	5.4
			12697	-1412.6	2917.3		L: Interface 52 PJMEast-G			46.4	0.0	0.03283		0.00000	0.3	0.3
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.17666	-0.18586	-261.1	1.4
			12698	-1412.6	2917.3		L: Interface 51 G-PJMEast			-46.4	0.0	-0.03283		0.00000	-0.3	-0.3
							C:130755 OAKDL345	345 130757 WATRC345	206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.17666	-0.18586	-261.1	1.4
			15907	-1152.3	3064.4		L: Interface 56 NYE-PJMEEnORE			-1366.9	-1287.0	-0.06935		0.00000	-1299.4	-1299.4
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW	230 3070 LACKAWNA	230 1				0.54606	-0.12699	-123.7	22.7
			15908	-1152.3	3064.4		L: Interface 55 PJME-NYEnORE			1366.9	1287.0	0.06935		0.00000	1299.4	1299.4
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW	230 3070 LACKAWNA	230 1				-0.54606	-0.12699	-123.7	22.7
			15911	-978.9	3162.4		L: Interface 51 G-PJMEast			-47.3	0.0	-0.04833		0.00000	-0.3	-0.3
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW	230 3070 LACKAWNA	230 1				0.38055	-0.12699	-123.7	0.7
			15912	-978.9	3162.4		L: Interface 52 PJMEast-G			47.3	0.0	0.04833		0.00000	0.3	0.3
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW	230 3070 LACKAWNA	230 1				-0.38055	-0.12699	-123.7	0.7
			15913	-406.5	3485.9		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1829.3	-1725.0	-0.25658		-0.18071	-1281.5	-1208.1
							C:126294 PLTVLLEY	345 137455 ATHENS	121							
							Open 126294 PLTVLLEY	345 137455 ATHENS	345 1				0.44120	-0.17197	-1241.5	-1171.6
			15914	-265.7	3565.5		L:126294 PLTVLLEY	345 137455 ATHENS	345 1	-1791.3	-1725.0	-0.24949		-0.17197	-1241.5	-1195.8
							C:126294 PLTVLLEY	345 137451 LEEDS 3	120							
							Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2				0.42902	-0.18071	-1281.5	-1233.5
			15915	1.4	3716.4		L:146758 CHESTER	138 146771 SHOEM138	138 1	-316.9	-317.0	-0.06243		-0.03422	-175.4	-175.4
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.12684	0.22243	1116.0	1116.3
			15916	1.4	3716.4		L:146758 CHESTER	138 146771 SHOEM138	138 1	-316.9	-317.0	-0.06243		-0.03422	-175.4	-175.4
							C:125001 ROCK TAV	345 126297 RAMAPO	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.12684	0.22243	1116.0	1116.3
			NA	96.8	3770.4	R	L:125021 DC CBLTP	115 125041 N.CHELSE	115 1	319.8	316.0	-0.03913		-0.02060	168.6	166.6
							C:125015 AC CBLTP	115 125041 N.CHELSE	16							
							Open 125015 AC CBLTP	115 125041 N.CHELSE	115 1				0.93208	-0.01988	162.2	160.3
			NA	104.6	3774.8	R	L:125021 DC CBLTP	115 125041 N.CHELSE	115 1	320.1	316.0	-0.03913		-0.02060	168.6	166.4
							C:125015 AC CBLTP	115 125020 DANSKAMA	15							
							Open 125015 AC CBLTP	115 125020 DANSKAMA	115 1				-0.93208	0.01988	-162.5	-160.5
			15917	273.7	3870.3		L:126294 PLTVLLEY	345 137451 LEEDS 3	345 2	-1281.5	-1331.0	-0.18071				
							Base Case									
			NA	367.1	3923.1	R	L: Interface 49 C-PJMCentral			61.2	0.0	-0.16666		-0.13956	194.3	143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.06948	0.00066	-35.9	-35.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15920	367.1	3923.1		L: Interface 49 C-PJMCentral			61.2	0.0	-0.16666		-0.13956	194.3	143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				0.06948	0.00066	-35.9	-35.6
			15921	367.1	3923.1		L: Interface 50 PJMCentral-C			-61.2	0.0	0.16666		0.13956	-194.3	-143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06948	0.00066	-35.9	-35.6
			NA	367.1	3923.1	R	L: Interface 50 PJMCentral-C			-61.2	0.0	0.16666		0.13956	-194.3	-143.0
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23835	-0.11389	-547.8	-589.6
							Open 135277 FALCONER	115 200579 WARREN	115 1				-0.06948	0.00066	-35.9	-35.6
			NA	369.5	3924.4	R	L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		0.13956	194.3	142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.33373	-0.03203	40.8	29.0
			NA	369.5	3924.4	R	L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.33373	-0.03203	40.8	29.0
			15924	369.5	3924.4		L: Interface 49 C-PJMCentral			57.1	0.0	-0.15456		0.13956	194.3	142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.33373	-0.03203	40.8	29.0
			15925	369.5	3924.4		L: Interface 50 PJMCentral-C			-57.1	0.0	0.15456		0.13956	-194.3	-142.7
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.22548	-0.11389	-547.8	-589.9
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.33373	-0.03203	40.8	29.0
			NA	384.7	3933	R	L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23759	-0.11389	-547.8	-591.6
			15928	384.7	3933		L: Interface 50 PJMCentral-C			-64.1	0.0	0.16662		0.13956	-194.3	-140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.23759	-0.11389	-547.8	-591.6
			15929	384.7	3933		L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23759	-0.11389	-547.8	-591.6
			NA	384.7	3933	R	L: Interface 49 C-PJMCentral			64.1	0.0	-0.16662		-0.13956	194.3	140.6
							C:130757 WATRC345	345 200769 HOMER CY	374							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.23759	-0.11389	-547.8	-591.6
			15930	394	3938.3		L: Interface 14 Leeds-PV			2523.0	2662.0	0.35267				
							Base Case									
			NA	451.6	3970.8	R	L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				-0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.14879	0.00000	22.7	22.7
			15933	451.6	3970.8		L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.14879	0.00000	22.7	22.7
			NA	451.6	3970.8	R	L: Interface 49 C-PJMCentral			63.8	0.0	-0.14120		-0.13956	194.3	131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345	345 200769 HOMER CY	345 1				0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345	345 130768 WATRC230	230 1				-0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				0.14879	0.00000	22.7	22.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15934	451.6	3970.8		L: Interface 50 PJMCentral-C			-63.8	0.0	0.14120		0.13956	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.14481	-0.11389	-547.8	-599.3
							Open 130757 WATRC345 345 130768 WATRC230	230 1					0.20651	-0.07197	264.1	231.6
							Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.14879	0.00000	22.7	22.7
			15935	520.5	4009.8		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1241.5	-1331.0	-0.17197				
							Base Case									
			15936	569.5	4037.5		L:146758 CHESTER 138 146773 SGRLF138 138 1			281.4	317.0	0.06243		0.03422	139.9	159.4
							C:125001 ROCK TAV 345 126297 RAMAPO	7								
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.12684	0.22243	1116.0	1242.7
			15937	569.5	4037.5		L:146758 CHESTER 138 146773 SGRLF138 138 1			281.4	317.0	0.06243		0.03422	139.9	159.4
							C:SIN:4401	684								
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.12684	0.22243	1116.0	1242.7
			15938	635.8	4074.9		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1578.2	-1725.0	-0.23087		-0.18071	-1281.5	-1396.4
							C:125000 HURLEY 3 345 137451 LEEDS 3	3								
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					0.32994	-0.15203	-899.1	-995.8
		NA		742.1	4135	R	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 MI PT21	562								
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
		NA		742.1	4135	R	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 MI PT21	562								
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			15939	742.1	4135	*	L: Interface 50 PJMCentral-C			-103.6	0.0	0.13956		0.13956	-194.3	-90.7
							C:GEN:9 MI PT21	562								
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			15940	742.1	4135	*	L: Interface 49 C-PJMCentral			103.6	0.0	-0.13956		-0.13956	194.3	90.7
							C:GEN:9 MI PT21	562								
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			15941	772.3	4152.1		L: Interface 14 Leeds-PV			3102.0	3450.0	0.45057		0.35267	2523.0	2795.4
							C:125000 HURLEY 3 345 137451 LEEDS 3	3								
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					-0.64393	-0.15203	-899.1	-1016.6
			15944	893.7	4220.7		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:125002 ROSETON 345 126281 FISHKILL	10								
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18921	-0.01700	1505.3	1490.1
			15945	893.7	4220.7		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
							C:SIN:4301	683								
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18921	-0.01700	1505.3	1490.1
			15946	900	4224.3		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:SIN:4401	684								
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					-0.16092	0.22243	1116.0	1316.2
			15947	900	4224.3		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
							C:125001 ROCK TAV 345 126297 RAMAPO	7								
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					-0.16092	0.22243	1116.0	1316.2
			15952	915.8	4233.2		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1523.8	-1725.0	-0.21970		-0.17197	-1241.5	-1399.0
							C:125000 HURLEY 3 345 137451 LEEDS 3	3								
							Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					0.31399	-0.15203	-899.1	-1038.4
			15953	931.5	4242.1		L:146758 CHESTER 138 146771 SHOEM138 138 1			-260.5	-317.0	-0.06069		-0.03422	-175.4	-207.2
							C:125001 ROCK TAV 345 146754 MDTN TAP	9								
							Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1					0.19956	-0.13269	-426.4	-550.0
			15958	959.7	4258		L:130750 COOPC345 345 130753 FRASR345 345 1			-993.8	-1207.0	-0.22216				
							Base Case									
			15961	982.5	4270.9		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1472.9	-1725.0	-0.25658		-0.18071	-1281.5	-1459.1
							C:137451 LEEDS 3 345 137455 ATHENS	6								
							Open 137451 LEEDS 3 345 137455 ATHENS	345 1					-0.44120	0.17197	433.7	602.7
			15976	1071.3	4321.1		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:SIN:4301	683								
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					0.36927	-0.01700	1505.3	1487.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15977	1071.3	4321.1		L: Interface 14 Leeds-PV			3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					0.36927	-0.01700	1505.3	1487.1
			15982	1106.3	4340.8	*	L: Interface 56 NYE-PJMENoRE			-1242.4	-1287.0	-0.04030		0.00000	-1299.4	-1299.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.35147	-0.07681	116.1	31.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.43285	-0.03072	37.4	3.4
			15983	1106.3	4340.8	*	L: Interface 55 PJME-NYENoRE			1242.4	1287.0	0.04030		0.00000	1299.4	1299.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.35147	-0.07681	116.1	31.1
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.43285	-0.03072	37.4	3.4
			15998	1134.2	4356.6		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1474.9	-1725.0	-0.22051		-0.18071	-1281.5	-1486.5
							C:125000 HURLEY 3 345 125002 ROSETON		1							
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1					-0.29336	0.13569	659.1	813.0
			16023	1257.9	4426.5		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
							C:125002 ROSETON 345 126281 FISHKILL		10							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18006	-0.01700	1505.3	1484.0
			16024	1257.9	4426.5		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL	345 1					-0.18006	-0.01700	1505.3	1484.0
			16033	1277.1	4437.4		L: Interface 14 Leeds-PV			2900.4	3450.0	0.43036		0.35267	2523.0	2973.4
							C:125000 HURLEY 3 345 125002 ROSETON		1							
							Open 125000 HURLEY 3 345 125002 ROSETON	345 1					0.57252	0.13569	659.1	832.4
			16072	1330	4467.2		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09071		0.05492	445.8	518.8
							C:125001 ROCK TAV 345 126297 RAMAPO		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.16092	0.22243	1116.0	1411.8
			16073	1330	4467.2		L:146754 MDTN TAP 345 146772 SHOEMTAP 138 1			625.4	746.0	0.09071		0.05492	445.8	518.8
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO	345 1					0.16092	0.22243	1116.0	1411.8
			16176	1364.1	4486.5		L:137451 LEEDS 3 345 137452 N.SCOT77 345 1			-1351.3	-1724.0	-0.27326		-0.17495	-865.1	-1103.7
							C:137451 LEEDS 3 345 137453 N.SCOT99		5							
							Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2					0.56507	-0.17398	-860.4	-1097.8
			16241	1376.2	4493.4		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1430.5	-1725.0	-0.21400		-0.18071	-1281.5	-1530.2
							C:130750 COOPC345 345 130753 FRASR345		192							
							Open 130750 COOPC345 345 130753 FRASR345	345 1					0.14988	-0.22216	-993.8	-1299.5
			16256	1378.4	4494.6		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-1348.2	-1724.0	-0.27263		-0.17398	-860.4	-1100.2
							C:137451 LEEDS 3 345 137452 N.SCOT77		4							
							Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1					0.56387	-0.17495	-865.1	-1106.2
			16321	1382.5	4496.9		L: Interface 51 G-PJMEast			74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.41611	-0.03072	37.4	-5.1
			16322	1382.5	4496.9		L: Interface 52 PJMEast-G			-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					-0.41611	-0.03072	37.4	-5.1
			NA	1382.5	4496.9	R	L: Interface 51 G-PJMEast			74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807 GOUDY115 115 200680 LAUREL L	115 1					0.41611	-0.03072	37.4	-5.1
			NA	1382.5	4496.9	R	L: Interface 52 PJMEast-G			-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA	230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836 N.WAV115 115 200676 E.SAYRE	115 1					-0.38829	-0.03203	40.8	-3.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19488	1678.2	4664		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1383.2	-1725.0	-0.20365		-0.17197	-1241.5	-1530.1
							C:130750	COOPC345 345 130753 FRASR345	192							
							Open	130750 COOPC345 345 130753 FRASR345	345 1				0.14263	-0.22216	-993.8	-1366.6
			19493	1728.9	4692.7		L:130750	COOPC345 345 147833 MARCY T1 345 1		-1007.4	-1345.0	-0.19527		-0.13551	-740.0	-974.3
							C:130750	COOPC345 345 130753 FRASR345	192							
							Open	130750 COOPC345 345 130753 FRASR345	345 1				0.26903	-0.22216	-993.8	-1377.9
			19494	1730.7	4693.7		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-553.8	-707.0	-0.08853		-0.05492	-445.8	-540.8
							C:125001	ROCK TAV 345 146754 MDTN TAP	9							
							Open	125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.25331	-0.13269	-426.4	-656.1
			19495	1746.7	4702.8		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1290.2	-1793.0	-0.28783		-0.17006	-742.3	-1039.3
							C:130750	COOPC345 345 146754 MDTN TAP	195							
							Open	130750 COOPC345 345 146754 MDTN TAP	345 1				-0.62777	0.18761	872.9	1200.6
			19498	1754.7	4707.3		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		98.8	173.0	0.04231		0.02843	77.9	127.8
							C:147834	NIAG 345 345 149000 ROCH 345	226							
							Open	147834 NIAG 345 345 149000 ROCH 345	345 1				0.04986	0.27848	418.2	906.8
			19499	1775.3	4718.9		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		44.9	143.0	0.05524		0.03549	17.2	80.2
							C:130755	OAKDL345 345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.18586	-261.1	-591.1
			19500	1809.5	4738.2		L:130817	JENN 115 115 130851 SIDNT115 115 1		51.5	120.0	0.03787		0.02109	18.1	56.3
							C:130753	FRASR345 345 130755 OAKDL345	200							
							Open	130753 FRASR345 345 130755 OAKDL345	345 1				-0.05892	-0.28478	-566.1	-1081.4
			19501	1810.5	4738.8		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-43.0	-143.0	-0.05524		-0.03549	-15.2	-79.5
							C:130755	OAKDL345 345 130757 WATRC345	206							
							Open	130755 OAKDL345 345 130757 WATRC345	345 1				0.10626	-0.18586	-261.1	-597.6
			NA	1813.2	4740.3	R	L: Interface	23 QFW		893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1		776							
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.00503	-288.3	-297.4
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.01007	-577.4	-595.7
			19502	1813.2	4740.3		L: Interface	23 QFW		893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1		776							
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 1					0.00000	-0.00503	-288.3	-297.4
							Open	130754 KINTI345 345 130873 KINTIG24 24.0 2					0.35118	-0.01007	-577.4	-595.7
			19503	1819	4743.6		L:130757	WATRC345 345 200769 HOMER CY 345 1		-547.8	-755.0	-0.11389				
							Base Case									
			19504	1819	4743.6		L: Interface	47 C-PJMWest		-547.8	-755.0	-0.11389				
							Base Case									
			19505	1819	4743.6		L: Interface	48 PJMWest-C		547.8	755.0	0.11389				
							Base Case									
			19506	1819	4743.6		L: Interface	60 C2PJMC		-547.8	-755.0	-0.11389				
							Base Case									
			19507	1819	4743.6		L: Interface	61 PJMC2C		547.8	755.0	0.11389				
							Base Case									
			19512	1850.1	4761.2		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		92.6	159.0	0.03591		0.02407	74.8	119.3
							C:147834	NIAG 345 345 149000 ROCH 345	226							
							Open	147834 NIAG 345 345 149000 ROCH 345	345 1				0.04252	0.27848	418.2	933.4
			NA	1862.3	4768.1	R	L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 MI PT21		562							
							Remove unit 2	from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			19513	1862.3	4768.1		L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
							C:GEN:9 MI PT21		562							
							Remove unit 2	from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			19514	1866	4770.1		L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
							C:HQ-NY-765-New1		777							
							Open	147827 MARCY765 765 147828 MASS 765 765 1	NA							
							Open	147828 MASS 765 765 180819 CHA-NY 765 1	NA							
							Open	147827 MARCY765 765 147833 MARCY T1 345 1					-0.25140	0.00782	624.3	638.9
							Open	147827 MARCY765 765 147833 MARCY T1 345 2					-0.25140	0.00680	543.3	556.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA							
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00731	10.7	-2.9	
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA							
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09628	0.00000	18.8	18.8	
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA							
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA							
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
		NA	1866		4770.1	R	L: Interface 23 QFW			919.4	0.0	-0.49272		-0.48904	1095.9	183.4	
							C:HQ-NY-765-New1		777								
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA							
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA							
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.25140	0.00782	624.3	638.9	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.25140	0.00680	543.3	556.0	
							Open 156 MCY765SW 0.0 147827 MARCY765 765 1			NA							
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00731	10.7	-2.9	
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA							
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.09628	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA							
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA							
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA							
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch										
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch										
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch										
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch										
							L:125001 ROCK TAV 345 130750 COOPC345 345 2			-1261.0	-1793.0	-0.28477		-0.17006	-742.3	-1060.0	
							C:SER:CMT34&MTR341		594								
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.55571	0.18761	872.9	1223.4	
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.07882	-0.13269	-426.4	-674.3	
							L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1353.5	-1725.0	-0.19525		-0.18071	-1281.5	-1625.3	
							C:SER:CMT34&MTR341		594								
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.09359	0.18761	872.9	1229.8	
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						-0.02274	-0.13269	-426.4	-678.9	
							L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1354.0	-1725.0	-0.19397		-0.18071	-1281.5	-1627.2	
							C:130750 COOPC345 345 147833 MARCY T1 196										
							Open 130750 COOPC345 345 147833 MARCY T1 345 1						0.09788	-0.13551	-740.0	-999.2	
							L: Interface 23 QFW			941.0	0.0	-0.48904		-0.48904	1095.9	154.9	
							C:GEN:GINNAL		563								
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch										
		NA			1924.2	4803	R	L: Interface 23 QFW			941.0	0.0	-0.48904		-0.48904	1095.9	154.9
							C:GEN:GINNAL		563								
							Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch										
							L:135872 SOUR-111 115 135873 SWDN-111 115 1			89.3	159.0	0.03591		0.02407	71.5	118.2	
							C:147834 NIAG 345 345 149000 ROCH 345 226										
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.04252	0.27848	418.2	958.5	
							L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1345.1	-1725.0	-0.19436		-0.18071	-1281.5	-1634.8	
							C:130750 COOPC345 345 146754 MDTN TAP 195										
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.07280	0.18761	872.9	1239.6	
							L: Interface 23 QFW			966.9	0.0	-0.48904		-0.48904	1095.9	129.0	
							C:GEN:SEABROOK1		574								
							Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch										
		NA			1977.2	4833	R	L: Interface 23 QFW			966.9	0.0	-0.48904		-0.48904	1095.9	129.0
							C:GEN:SEAB&OMS1		576								
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00003	0.00000	-0.1	-0.1	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19528	1988.6	4839.5		L:130819	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
								KATEL115 115 130838 OAKDL115 115 1		-121.4	-192.0	-0.03551		-0.01769	-86.0	-121.1
								C:130753 FRASR345 345 130755 OAKDL345 200								
			19529	1993.1	4842		L:130753	Open 130753 FRASR345 345 130755 OAKDL345 345 1		-762.3	-1380.0	-0.30993	0.06258	-0.28478	-566.1	-1132.4
								C:130753 FRASR345 345 137200 EDIC 202								
								Open 130753 FRASR345 345 137200 EDIC 345 1					0.27552	-0.09129	-712.0	-893.9
			19533	2016.6	4855.3		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		99.5	173.0	0.03645		0.02843	77.9	135.2
								C:130754 KINTI345 345 149000 ROCH 345 205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.04136	0.19408	521.8	913.1
		NA	2023.1	4859	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.0	240.0	-0.03903		-0.01988	162.2	122.0
								C:125021 DC CBLTP 115 125041 N.CHELSE 29								
								Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					0.92978	-0.02060	168.6	126.9
		NA	2028.7	4862.1	R		L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.2	240.0	-0.03903		-0.01988	162.2	121.9
								C:125020 DANSKAMA 115 125021 DC CBLTP 25								
								Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1					0.92978	-0.02060	168.8	127.0
			19544	2061.2	4880.5		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.24721		-0.17398	-860.4	-1219.0
								C:BUS:N.S._771 615								
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.60778	-0.04334	-242.4	-331.7
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.40442	0.00032	113.3	114.0
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.33527	0.17278	820.4	1176.6
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.26700	-0.04086	-84.4	-168.7
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.20564	0.00000	0.0	0.0
			19545	2063.9	4882		L: Interface	14 Leeds-PV		2663.5	3450.0	0.38105		0.35267	2523.0	3250.9
								C:SER:CMT34&MTR341 594								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.18265	0.18761	872.9	1260.1
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.04437	-0.13269	-426.4	-700.3
			19549	2075.3	4888.4		L: Interface	14 Leeds-PV		2664.4	3450.0	0.37856		0.35267	2523.0	3254.9
								C:130750 COOPC345 345 147833 MARCY T1 196								
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					-0.19102	-0.13551	-740.0	-1021.2
			19550	2082.3	4892.4		L:130757	WATRC345 345 130768 WATRC230 230 1		459.8	600.0	0.06734		-0.07197	264.1	114.2
								C:130755 OAKDL345 345 130757 WATRC345 206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.74954	-0.18586	-261.1	-648.1
			19551	2084.9	4893.9		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-83.3	-173.0	-0.04302		-0.02891	-62.1	-122.4
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.27848	418.2	998.8
			19556	2113.3	4909.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1076.8	-1703.0	-0.29630		-0.22216	-993.8	-1463.3
								C:130753 FRASR345 345 147831 GILB 345 203								
								Open 130753 FRASR345 345 147831 GILB 345 345 1					-0.39407	0.18814	210.7	608.3
			19557	2116.4	4911.7		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		445.8	562.0	0.05492				
								Base Case								
			19558	2116.8	4911.9		L: Interface	14 Leeds-PV		2647.1	3450.0	0.37933		0.35267	2523.0	3269.6
								C:130750 COOPC345 345 146754 MDTN TAP 195								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.14209	0.18761	872.9	1270.0
		NA	2125.7	4917	R		L: Interface	54 NYE-PJME		-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.60931	0.23158	-1041.8	-549.5
		NA	2125.7	4917	R		L: Interface	53 PJME-NYE		1087.0	787.0	-0.14111		0.00000	452.2	452.2
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.60931	0.23158	-1041.8	-549.5
		NA	2126.8	4917.5	R		L: Interface	53 PJME-NYE		1085.6	787.0	-0.14041		0.00000	452.2	452.2
								C:GEN:IND PT 2-New1 773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.62193	0.22576	-1018.5	-538.3
		NA	2126.8	4917.5	R		L: Interface	54 NYE-PJME		-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 1				0.00000	0.11288	-509.2	-269.2
								Open 126288 IP2 345 345 126651 IND PT 2	22.0 2				0.62193	0.22576	-1018.5	-538.3
			19566	2128.9	4918.7		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		93.2	159.0	0.03092		0.02407	74.8	126.0
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03527	0.19408	521.8	934.9
			19573	2139.1	4924.5		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		103.6	180.0	0.03571		0.02393	85.9	137.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04231	0.27848	418.2	1013.9
			19585	2171.2	4942.7		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		553.8	746.0	0.08853		0.05492	445.8	565.0
								C:125001 ROCK TAV 345 146754 MDTN TAP	9							
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				-0.25331	-0.13269	-426.4	-714.5
			19586	2171.9	4943.1		L: Interface	14 Leeds-PV		2627.6	3450.0	0.37867		0.35267	2523.0	3289.0
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN 345 103117 CTNY398	345 1				0.33670	0.07721	310.6	478.3
								Open 103117 CTNY398 345 126294 PLTVLLEY	345 1				-0.23705	0.00000	0.2	0.2
			19587	2172	4943.1	*	L: Interface	14 Leeds-PV		2627.5	3450.0	0.37867		0.35267	2523.0	3289.0
								C:103117 CTNY398 345 126294 PLTVLLEY	362							
								Open 103117 CTNY398 345 126294 PLTVLLEY	345 1				0.33670	0.07721	310.4	478.1
			19607	2205.9	4962.3		L:135850	SOUR-114 115 135861 MORTIMER 115 1		70.5	153.0	0.03738		0.02506	52.0	107.3
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04425	0.27848	418.2	1032.5
			19690	2233.5	4977.9		L:135872	SOUR-111 115 135873 SWDN-111 115 1		89.9	159.0	0.03092		0.02407	71.5	125.3
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03527	0.19408	521.8	955.2
			19691	2233.5	4977.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.0	-1725.0	-0.18580		-0.17197	-1241.5	-1625.6
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.08906	0.18761	872.9	1291.9
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				-0.02164	-0.13269	-426.4	-722.8
			21081	2246	4984.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.4	-1725.0	-0.18459		-0.17197	-1241.5	-1627.7
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				0.09314	-0.13551	-740.0	-1044.4
			21170	2250.5	4987.5		L:130764	MEYER230 230 131122 WTHRS230 230 1		-242.2	-430.0	-0.08347				
								Base Case								
			21209	2254.7	4989.9		L:130836	N.WAV115 115 131018 LOUNSI15 115 1		48.5	173.0	0.05524		0.03549	20.7	100.7
								C:130755 OAKDL345 345 130757 WATRC345	206							
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.10626	-0.18586	-261.1	-680.2
			21251	2259.1	4992.3		L:130750	COOPC345 345 130753 FRASR345 345 1		-1143.6	-1703.0	-0.24764		-0.22216	-993.8	-1495.7
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345	345 1				0.16356	-0.15578	-915.6	-1267.5
			21260	2262.2	4994.1		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		97.8	180.0	0.03633		0.02435	79.8	134.9
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04302	0.27848	418.2	1048.2
			21290	2276.5	5002.1		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00023	-0.00033	74.9	74.2
			21291	2276.5	5002.1		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					-0.00016	-0.00021	88.8	88.3
			21304	2287.1	5008.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1302.0	-1725.0	-0.18496		-0.17197	-1241.5	-1634.8
								C:130750 COOPC345 345 146754 MDTN TAP	195							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				-0.06928	0.18761	872.9	1301.9
			21305	2287.5	5008.4		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35766				

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21306	2287.9	5008.6		L:130815	Base Case HINMN115 115 135452 LOCKPORT 115 1		191.4	280.0	0.03872		0.02477	170.5	227.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.05011	0.27848	418.2	1055.3
			21327	2317.9	5025.6		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:125002 ROSETON 345 126281 FISHKILL	10							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1				-0.04251	-0.01700	1505.3	1465.9
			21328	2317.9	5025.6		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1				-0.04251	-0.01700	1505.3	1465.9
			21331	2322.8	5028.3		L:130794	DELHI115 115 130851 SIDNT115 115 1		-33.5	-120.0	-0.03724		-0.02058	-0.4	-48.2
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.05851	-0.28478	-566.1	-1227.6
			21336	2327.8	5031.1		L:130815	HINMN115 115 131611 HARS115 115 1		-218.3	-306.0	-0.03766		-0.02411	-198.0	-254.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04868	0.27848	418.2	1066.4
			21349	2342.6	5039.5	*	L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1292.5	-1725.0	-0.18464		-0.17197	-1241.5	-1644.3
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN 345 103117 CTNY398	345 1				-0.16418	0.07721	310.6	491.5
								Open 103117 CTNY398 345 126294 PLTVLLEY	345 1				0.11559	0.00000	0.2	0.2
			21356	2347.9	5042.5		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1185.3	-1724.0	-0.22943		-0.17495	-865.1	-1275.8
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345	345 1				0.34978	-0.15578	-915.6	-1281.4
			21381	2376.2	5058.5		L:130770	SHLDN230 230 131122 WTHRS230 230 1		231.9	430.0	0.08335				
								Base Case								
			21383	2377.5	5059.2		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1180.8	-1724.0	-0.22849		-0.17398	-860.4	-1274.1
								C:137451 LEEDS 3 345 147831 GILB 345	7							
								Open 137451 LEEDS 3 345 147831 GILB 345	345 1				0.34988	-0.15578	-915.6	-1286.0
			21388	2379.4	5060.3		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.1	-540.0	-0.09831		-0.08347	-242.2	-440.8
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.11956	-0.11389	-547.8	-818.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.03820	-0.03203	40.8	-35.4
			21409	2399.9	5071.9		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.03707		-0.02891	-62.1	-131.5
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				-0.04206	0.19408	521.8	987.5
			21416	2405	5074.8		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.09693		-0.08347	-242.2	-442.9
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.11817	-0.11389	-547.8	-821.7
			21419	2410.4	5077.8		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24517		-0.18542	-917.3	-1364.2
								C:137200 EDIC 345 137452 N.SCOT77	946							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.34584	0.17278	820.4	1236.9
			21428	2419.1	5082.7		L:130753	FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.28478				
								Base Case								
			21445	2428.6	5088.1		L:130764	MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.09690		-0.08347	-242.2	-444.9
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.11759	-0.11389	-547.8	-824.4
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.05270	0.00066	-35.9	-34.2
			21495	2441.4	5095.4		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00024	-0.00033	74.9	74.1
			21496	2441.4	5095.4		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00016	-0.00021	88.8	88.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			22758	2455.9	5103.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-645.1	-1380.0	-0.29924		-0.28478	-566.1	-1265.5
								C:130750 COOPC345 345 147833 MARCY T1	196							
								Open 130750 COOPC345 345 147833 MARCY T1	345 1				0.10675	-0.13551	-740.0	-1072.8
			22953	2464.7	5108.5		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		104.2	180.0	0.03074		0.02393	85.9	144.9
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03510	0.19408	521.8	1000.1
			23032	2486.2	5120.6		L:130770	SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.09819		0.08335	231.9	439.2
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11956	-0.11389	-547.8	-831.0
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.03820	-0.03203	40.8	-38.8
			23034	2486.7	5120.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1				0.00061	-0.00021	88.8	88.3
			23035	2486.7	5120.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04710	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1				0.00092	-0.00033	74.9	74.1
			23059	2503.1	5130.2		L:130753	FRASR345 345 130755 OAKDL345 345 1		-667.2	-1380.0	-0.28478		-0.28478	-566.1	-1278.9
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2				0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			23065	2507.5	5132.7		L:130767	STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.08323				
								Base Case								
			23071	2513.4	5136		L:130770	SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09681		0.08335	231.9	441.4
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11817	-0.11389	-547.8	-834.1
			23072	2513.4	5136.1		L:130753	FRASR345 345 130755 OAKDL345 345 1		-631.2	-1380.0	-0.29793		-0.28478	-566.1	-1281.9
								C:137453 N.SCOT99 345 147833 MARCY T1	12							
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.07093	-0.18542	-917.3	-1383.3
			23094	2528.5	5144.6		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1				0.00061	-0.00021	88.8	88.3
			23095	2528.5	5144.6		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1				-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1				0.00092	-0.00033	74.9	74.1
			23097	2529.8	5145.3		L:131018	LOUN5115 115 131850 CNYOG115 115 1		14.5	143.0	0.05078		0.03549	17.2	107.0
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.05666	-0.11389	-547.8	-835.9
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.12284	-0.07197	264.1	82.0
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.05531	0.00000	22.7	22.7
			23100	2531.9	5146.5		L:146758	CHESTER 138 146771 SHOEM138 138 1		-175.4	-262.0	-0.03422				
								Base Case								
			23101	2532.1	5146.6		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.0	180.0	0.03634		0.02436	70.0	131.7
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.04303	0.27848	418.2	1123.3
			23105	2535.2	5148.4		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-445.8	-585.0	-0.05492				
								Base Case								
			23107	2537	5149.4		L:130770	SHLDN230 230 131122 WTHRS230 230 1		294.5	540.0	0.09678		0.08335	231.9	443.4
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11759	-0.11389	-547.8	-836.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			23109	2538.2	5150		L:130753	Open 135277 FALCONER 115 200579 WARREN 115 1 FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.28478	0.05270	0.00066	-35.9	-34.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch					0.00002	0.00000	-0.1	-0.1
			23110	2538.2	5150*		L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
								C:GEN:SEABROOK1 574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			23112	2542.1	5152.3		L:135850	SOUR-114 115 135861 MORTIMER 115 1 C:130754 KINTI345 345 149000 ROCH 345 205		71.2	153.0	0.03218		0.02506	52.0	115.7
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03670	0.19408	521.8	1015.1
			23133	2553.8	5158.9		L:130807	GOUDY115 115 130848 S.OWE115 115 1 C:130755 OAKDL345 345 130757 WATRC345 206		-1.9	-143.0	-0.05524		-0.03549	25.8	-64.8
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.10626	-0.18586	-261.1	-735.8
			23135	2554.7	5159.4		L:135850	SOUR-114 115 135876 TELRDTP1 115 1 C:147834 NIAG 345 345 149000 ROCH 345 226		-84.5	-180.0	-0.03738		-0.02506	-66.0	-130.0
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04425	0.27848	418.2	1129.6
			23137	2555	5159.5		L:131018	LOUNSI115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_2301 634		-13.2	143.0	0.06113		0.03549	17.2	107.9
								Open 130768 WATRC230 230 130772 SHRED230 230 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					0.24197	0.05180	73.0	205.3
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.18210	-0.07197	264.1	80.2
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.12851	0.00000	0.5	0.5
			23141	2558.3	5161.4		L:130750	COOPC345 345 130753 FRASR345 345 1 C:125000 HURLEY 3 345 137451 LEEDS 3 3		-1092.1	-1703.0	-0.23878		-0.22216	-993.8	-1562.2
								Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1					0.10935	-0.15203	-899.1	-1288.1
			23143	2562.4	5163.7		L:135858	GOLAH115 115 135862 MUMFORD1 115 1 C:147834 NIAG 345 345 149000 ROCH 345 226		-62.8	-173.0	-0.04302		-0.02891	-41.6	-115.6
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.27848	418.2	1131.8
			23151	2568	5166.9		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_3451 633		-12.6	-143.0	-0.05078		-0.03549	-15.2	-106.4
								Open 130757 WATRC345 345 200769 HOMER CY 345 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					0.05666	-0.11389	-547.8	-840.3
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.12284	-0.07197	264.1	79.3
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.05531	0.00000	22.7	22.7
			23156	2572.4	5169.4		L:130750	COOPC345 345 130753 FRASR345 345 1 C:126294 PLTVLLEY 345 137451 LEEDS 3 120		-1094.9	-1703.0	-0.23641		-0.22216	-993.8	-1565.3
								Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2					0.07887	-0.18071	-1281.5	-1746.4
			23159	2573.2	5169.8		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07341		0.00000	-452.2	-452.2
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.25776	-0.28478	-566.1	-1298.9
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.25776	-0.28478	-566.1	-1298.9
			23172	2580.6	5174		L:147834	NIAG 345 345 149000 ROCH 345 345 1 C:130754 KINTI345 345 149000 ROCH 345 205		697.9	1685.0	0.38252		0.27848	418.2	1136.8
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.53609	0.19408	521.8	1022.6
			23173	2581.1	5174.3		L:137200	EDIC 345 137452 N.SCOT77 345 1 C:137453 N.SCOT99 345 147833 MARCY T1 12		1121.1	1724.0	0.23357		0.17278	820.4	1266.4
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.32782	-0.18542	-917.3	-1395.9
			23178	2586.8	5177.5		L:130848	S.OWE115 115 131850 CNYOG115 115 1 C:BUS:WATERCURE_2301 634		15.1	-143.0	-0.06113		-0.03549	-15.2	-107.0
								Open 130768 WATRC230 230 130772 SHRED230 230 1 Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.24197	0.05180	73.0	207.0
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.18210	-0.07197	264.1	77.9
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.12851	0.00000	0.5	0.5
			23186	2594.1	5181.6		L:130764	MEYER230 230 131122 WTHRS230 230 1 C:147834 NIAG 345 345 149000 ROCH 345 226		-272.0	-540.0	-0.10332		-0.08347	-242.2	-458.7
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.07130	0.27848	418.2	1140.6
			23195	2597.7	5183.7		L:130767	STOLE230 230 130770 SHLDN230 230 1		285.3	540.0	0.09806		0.08323	221.3	437.5

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11956	-0.11389	-547.8	-843.7
								Open 130836 N.WAV115 115 200676 E.SAYRE	115 1				-0.03820	-0.03203	40.8	-42.4
			23210	2605.3	5188		L:130750	COOPC345 345 130753 FRASR345 345 1		-1089.6	-1703.0	-0.23543		-0.22216	-993.8	-1572.6
								C:126294 PLTVLLEY 345 137455 ATHENS	121							
								Open 126294 PLTVLLEY 345 137455 ATHENS	345 1				0.07718	-0.17197	-1241.5	-1689.5
			23215	2606.1	5188.4		L:135861	MORTIMER 115 135873 SWDN-111 115 1		-54.0	-153.0	-0.03800		-0.02548	-35.1	-101.5
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04499	0.27848	418.2	1143.9
			23221	2607.6	5189.3		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		98.4	180.0	0.03128		0.02435	79.8	143.3
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				0.03569	0.19408	521.8	1027.8
			23462	2626.6	5200		L:130767	STOLE230 230 130770 SHLDN230 230 1		286.1	540.0	0.09668		0.08323	221.3	439.9
								C:130757 WATRC345 345 200769 HOMER CY	374							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11817	-0.11389	-547.8	-847.0
			24698	2637.5	5206.2		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		47.3	143.0	0.03630		0.03549	17.2	110.8
								C:130755 OAKDL345 345 131128 LAPEER	209							
								Open 130755 OAKDL345 345 131128 LAPEER	345 1				-0.05020	-0.01619	-599.0	-641.7
			24703	2638.1	5206.5		L:137200	EDIC 345 137452 N.SCOT77 345 1		1117.8	1724.0	0.22977		0.17278	820.4	1276.2
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345	345 1				-0.18531	-0.03236	-307.4	-392.7
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				-0.38310	-0.18542	-917.3	-1406.5
								Open 137453 N.SCOT99 345 137516 N.SCOT1	115 1				-0.09741	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2				-0.11491	-0.17398	-860.4	-1319.4
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				-0.24149	0.00000	1.6	1.6
			24737	2641.7	5208.6		L:130750	COOPC345 345 130753 FRASR345 345 1		-1080.1	-1703.0	-0.23581		-0.22216	-993.8	-1580.7
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345	345 1				0.12469	-0.03236	-307.4	-392.9
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1				0.04434	-0.18542	-917.3	-1407.1
								Open 137453 N.SCOT99 345 137516 N.SCOT1	115 1				-0.00285	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2				0.00801	-0.17398	-860.4	-1320.0
								Open 137452 N.SCOT77 345 137453 N.SCOT99	345 1				-0.01543	0.00000	1.6	1.6
			24770	2650.2	5213.4		L:130767	STOLE230 230 130770 SHLDN230 230 1		283.8	540.0	0.09665		0.08323	221.3	441.9
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.11759	-0.11389	-547.8	-849.7
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.05270	0.00066	-35.9	-34.1
			24781	2654.2	5215.6		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		28.2	143.0	0.04327		0.03549	17.2	111.4
								C:130768 WATRC230 230 130772 SHRED230	227							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				0.15025	0.05180	73.0	210.5
			24804	2662.7	5220.4		L:135861	MORTIMER 115 135874 SWDN-113 115 1		-50.4	-153.0	-0.03854		-0.02584	-31.3	-100.1
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.04563	0.27848	418.2	1159.7
			24805	2663.4	5220.8		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-865.1	-1331.0	-0.17495				
								Base Case								
			24807	2666.1	5222.3		L: Interface	53 PJME-NYE		622.4	787.0	0.06174		0.00000	452.2	452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.43803	0.00000	22.7	22.7
			24808	2666.1	5222.3		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.06174		0.00000	-452.2	-452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.43803	0.00000	22.7	22.7
			24810	2670	5224.6		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		27.5	143.0	0.04327		0.03549	17.2	111.9
								C:SER:OAKDALE_WATRC2301	595							
								Open 130768 WATRC230 230 130772 SHRED230	230 1				0.15025	0.05180	73.0	211.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130765 OAKDL230 230 130772 SHRED230 230 1		NA						
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.10159	0.00000	6.8	6.8
			24815	2671.7	5225.5		L:131018 LOUNSI115 115 131850 CNYOG115 115 1			17.2	112.0	0.03549				
							Base Case									
			24825	2673.9	5226.7		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.8	173.0	0.03185		0.02843	77.9	153.9
							C:130764 MEYER230 230 131122 WTHRS230 221									
							Open 130764 MEYER230 230 131122 WTHRS230 230 1						-0.04101	-0.08347	-242.2	-465.3
			24827	2675.7	5227.8		L:130815 HINMN115 115 135452 LOCKPORT 115 1			192.1	280.0	0.03284		0.02477	170.5	236.7
							C:130754 KINTI345 345 149000 ROCH 345 205									
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						0.04157	0.19408	521.8	1041.1
			24830	2676.8	5228.4		L:131018 LOUNSI115 115 131850 CNYOG115 115 1			27.2	143.0	0.04327		0.03549	17.2	112.2
							C:130765 OAKDL230 230 130772 SHRED230 222									
							Open 130765 OAKDL230 230 130772 SHRED230 230 1						-0.15025	-0.05180	-66.5	-205.1
			24832	2677.6	5228.8		L:131018 LOUNSI115 115 131850 CNYOG115 115 1			27.1	143.0	0.04327		0.03549	17.2	112.2
							C:130765 OAKDL230 230 130838 OAKDL115 223									
							Open 130765 OAKDL230 230 130838 OAKDL115 115 1						0.15025	0.05180	66.2	204.9
			24842	2685.7	5233.4		L:130815 HINMN115 115 135452 LOCKPORT 115 1			195.3	280.0	0.03152		0.02477	170.5	237.0
							C:130766 ROBIN230 230 130767 STOLE230 224									
							Open 130766 ROBIN230 230 130767 STOLE230 230 1						0.26884	0.02512	92.6	160.0
			24847	2687.4	5234.4		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.4	173.0	0.03184		0.02843	77.9	154.3
							C:130770 SHLDN230 230 131122 WTHRS230 228									
							Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.04101	0.08335	231.9	455.9
			24851	2691.1	5236.4		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-45.3	-143.0	-0.03630		-0.03549	-15.2	-110.7
							C:130755 OAKDL345 345 131128 LAPEER 209									
							Open 130755 OAKDL345 345 131128 LAPEER 345 1						0.05020	-0.01619	-599.0	-642.6
			24856	2694.6	5238.4		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			75.9	173.0	0.03604		0.02843	77.9	154.5
							C:130754 KINTI345 345 147834 NIAG 345 204									
							Open 130754 KINTI345 345 147834 NIAG 345 345 1						-0.04136	-0.18401	48.6	-447.2
			24858	2696	5239.2		L:130770 SHLDN230 230 131122 WTHRS230 230 1			261.8	540.0	0.10321		0.08335	231.9	456.7
							C:147834 NIAG 345 345 149000 ROCH 345 226									
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.07130	0.27848	418.2	1168.9
			24861	2699.1	5241		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-26.2	-143.0	-0.04327		-0.03549	-15.2	-111.0
							C:130768 WATRC230 230 130772 SHRED230 227									
							Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.15025	0.05180	73.0	212.8
			24868	2701.6	5242.4		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			87.0	173.0	0.03184		0.02843	77.9	154.7
							C:130767 STOLE230 230 130770 SHLDN230 226									
							Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.04101	0.08323	221.3	446.2
			24881	2704.7	5244.1		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-860.4	-1331.0	-0.17398				
							Base Case									
			24895	2715	5249.9		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.5	-143.0	-0.04327		-0.03549	-15.2	-111.6
							C:SER:OAKDALE_WATRC2301 595									
							Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.15025	0.05180	73.0	213.6
							Open 130765 OAKDL230 230 130772 SHRED230 230 1			NA						
							Open 130765 OAKDL230 230 130838 OAKDL115 115 1						0.10159	0.00000	6.8	6.8
			24904	2721.7	5253.7		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.8
							C:130765 OAKDL230 230 130772 SHRED230 222									
							Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.15025	-0.05180	-66.5	-207.5
			24906	2722.2	5254		L:130815 HINMN115 115 131611 HARIS115 115 1			-219.0	-306.0	-0.03194		-0.02411	-198.0	-263.6
							C:130754 KINTI345 345 149000 ROCH 345 205									
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.04038	0.19408	521.8	1050.1
			24907	2722.3	5254.1		L:131018 LOUNSI115 115 131850 CNYOG115 115 1			-20.9	143.0	0.06019		0.03549	17.2	113.8
							C:130763 HILSD230 230 130768 WATRC230 219									
							Open 130763 HILSD230 230 130768 WATRC230 230 1						0.19958	0.12377	-190.6	146.3
			24908	2722.6	5254.2		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.9
							C:130765 OAKDL230 230 130838 OAKDL115 223									
							Open 130765 OAKDL230 230 130838 OAKDL115 115 1						-0.15025	0.05180	66.2	207.3
			24909	2723.6	5254.8		L:130750 COOPC345 345 130753 FRASR345 345 1			-1060.5	-1703.0	-0.23589		-0.22216	-993.8	-1598.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:125000 HURLEY 3 345 125002 ROSETON	1							
								Open 125000 HURLEY 3 345 125002 ROSETON	345 1				-0.10122	0.13569	659.1	1028.7
			24917	2726.5	5256.5		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-15.2	-112.0	-0.03549				
								Base Case								
			24926	2734.1	5260.8		L:130815 HINMN115 115 131611 HARIS115 115 1			-222.2	-306.0	-0.03067		-0.02411	-198.0	-263.9
								C:130766 ROBIN230 230 130767 STOLE230	224							
								Open 130766 ROBIN230 230 130767 STOLE230	230 1				-0.26115	0.02512	92.6	161.3
			24927	2735.4	5261.5		L:130753 FRASR345 345 137200 EDIC 345 1			-888.0	-1380.0	-0.17986		-0.09129	-712.0	-961.7
								C:130753 FRASR345 345 130755 OAKDL345	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				0.31098	-0.28478	-566.1	-1345.1
			24932	2738.7	5263.3		L:137451 LEEDS 3 345 147831 GILB 345 345 1			-1313.8	-1912.0	-0.21844		-0.15578	-915.6	-1342.2
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					0.62610	-0.03236	-307.4	-396.0
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.16119	-0.18542	-917.3	-1425.1
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					0.03268	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.07200	-0.17398	-860.4	-1336.9
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.10447	0.00000	1.6	1.6
			24947	2754.6	5272.4		L:130848 S.OWE115 115 131850 CNYOG115 115 1			22.8	-143.0	-0.06019		-0.03549	-15.2	-113.0
								C:130763 HILSD230 230 130768 WATRC230	219							
								Open 130763 HILSD230 230 130768 WATRC230	230 1				-0.19958	0.12377	-190.6	150.3
			24962	2761.1	5276		L:125001 ROCK TAV 345 126297 RAMAPO 345 1			1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01700	1505.3	1458.4
			24963	2761.1	5276		L:125001 ROCK TAV 345 126297 RAMAPO 345 1			1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:125002 ROSETON 345 126281 FISHKILL	10							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1				0.37909	-0.01700	1505.3	1458.4
			25029	2793.9	5294.6		L:130815 HINMN115 115 135452 LOCKPORT 115 1			191.0	280.0	0.03185		0.02477	170.5	239.7
								C:130764 MEYER230 230 131122 WTHRS230	221							
								Open 130764 MEYER230 230 131122 WTHRS230	230 1				-0.08488	-0.08347	-242.2	-475.4
			25088	2802.4	5299.3		L:130767 STOLE230 230 130770 SHLDN230 230 1			251.1	540.0	0.10308		0.08323	221.3	454.5
								C:147834 NIAG 345 345 149000 ROCH 345	226							
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.07130	0.27848	418.2	1198.6
			25092	2803	5299.7		L:130750 COOPC345 345 130753 FRASR345 345 1			-1047.7	-1703.0	-0.23379		-0.22216	-993.8	-1616.5
								C:BUS:N.S._771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.03869	-0.04334	-242.4	-363.9
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.01601	0.00032	113.3	114.2
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.05550	0.17278	820.4	1304.7
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.00921	-0.04086	-84.4	-199.0
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01098	0.00000	0.0	0.0
			25106	2803.8	5300.2		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			85.4	173.0	0.03126		0.02843	77.9	157.6
								C:135850 SOUR-114 115 135876 TELRDTP1	673							
								Open 135850 SOUR-114 115 135876 TELRDTP1 115 1					-0.11295	-0.02506	-66.0	-136.3
			25206	2808	5302.5		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			85.9	173.0	0.03101		0.02843	77.9	157.7
								C:135452 LOCKPORT 115 135872 SOUR-111	599							
								Open 135452 LOCKPORT 115 135872 SOUR-111 115 1					0.10725	0.02407	74.8	142.4
			26113	2811.9	5304.7		L:135452 LOCKPORT 115 135872 SOUR-111 115 1			73.1	159.0	0.03056		0.02407	74.8	142.5
								C:130754 KINTI345 345 147834 NIAG 345	204							
								Open 130754 KINTI345 345 147834 NIAG 345	345 1				-0.03527	-0.18401	48.6	-468.8
			26120	2812	5304.8		L:130764 MEYER230 230 131122 WTHRS230 230 1			-273.0	-540.0	-0.09495		-0.08347	-242.2	-476.9
								C:130754 KINTI345 345 149000 ROCH 345	205							
								Open 130754 KINTI345 345 149000 ROCH 345	345 1				-0.05915	0.19408	521.8	1067.5
			26232	2812.5	5305		L: Interface 59 MarcySouthS			1935.4	3048.0	0.39561		0.35766	1733.8	2739.7
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.09642	-0.03236	-307.4	-398.4
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.15078	-0.18542	-917.3	-1438.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00329	0.00046	120.3	121.6
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					-0.03947	-0.17398	-860.4	-1349.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			26428	2815	5306.5		L:130764	Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1 MEYER230 230 131122 WTHRS230 230 1		-307.8	-540.0	-0.08250	0.02283	0.00000	1.6	1.6
								C:BUS:WATERCURE 3451 633								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1 Open 130757 WATRC345 345 130768 WATRC230 230 1 Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.06554	-0.11389	-547.8	-868.4
			26508	2819	5308.7		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1 C:135850 SOUR-114 115 135861 MORTIMER 672 Open 135850 SOUR-114 115 135861 MORTIMER 115 1		84.3	173.0	0.03148		0.02843	77.9	158.0
			26512	2819.2	5308.9*		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1 C:135872 SOUR-111 115 135873 SWDN-111 706 Open 135872 SOUR-111 115 135873 SWDN-111 115 1		85.6	173.0	0.03101		0.02843	77.9	158.0
			26532	2822	5310.4		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:130770 SHLDN230 230 131122 WTHRS230 228 Open 130770 SHLDN230 230 131122 WTHRS230 230 1		190.1	280.0	0.03184		0.02477	170.5	240.3
			26608	2833.2	5316.7		L: Interface	32 F-To-G C:130750 COOPC345 345 130753 FRASR345 192 Open 130750 COOPC345 345 130753 FRASR345 345 1		4206.2	6118.0	0.67479		0.56513	3715.6	5316.7
			26652	2841.6	5321.5		L:130815	HINMN115 115 131611 HARSIS115 115 1 C:130764 MEYER230 230 131122 WTHRS230 221 Open 130764 MEYER230 230 131122 WTHRS230 230 1		-217.9	-306.0	-0.03099		-0.02411	-198.0	-266.5
			26716	2850.3	5326.4		L:136150	CLAY 345 137200 EDIC 345 2 C:136150 CLAY 345 137200 EDIC 715 Open 136150 CLAY 345 137200 EDIC 345 1		770.0	1434.0	0.23297		0.17473	577.6	1075.6
			26727	2851.3	5327		L:130815	HINMN115 115 135452 LOCKPORT 115 1 C:130767 STOLE230 230 130770 SHLDN230 226 Open 130767 STOLE230 230 130770 SHLDN230 230 1		189.2	280.0	0.03183		0.02477	170.5	241.1
			28167	2863.8	5334.1		L:136150	CLAY 345 137200 EDIC 345 1 C:136150 CLAY 345 137200 EDIC 716 Open 136150 CLAY 345 137200 EDIC 345 2		768.3	1434.0	0.23245		0.17473	577.6	1077.9
			28220	2869.7	5337.4		L:130815	HINMN115 115 131611 HARSIS115 115 1 C:130770 SHLDN230 230 131122 WTHRS230 228 Open 130770 SHLDN230 230 131122 WTHRS230 230 1		-217.1	-306.0	-0.03098		-0.02411	-198.0	-267.2
			28224	2870.2	5337.6*		L:130750	COOPC345 345 130753 FRASR345 345 1 C:137451 LEEDS 3 345 137455 ATHENS 6 Open 137451 LEEDS 3 345 137455 ATHENS 345 1		-1027.3	-1703.0	-0.23543		-0.22216	-993.8	-1631.4
			28256	2884	5345.5		L:130764	MEYER230 230 131122 WTHRS230 230 1 C:LKWANA-OXBW1 652 Open 417 OXBOW 230 3070 LACKAWNA 230 1		-256.6	-540.0	-0.09828		-0.08347	-242.2	-482.9
			28287	2899	5353.9		L:130815	HINMN115 115 131611 HARSIS115 115 1 C:130767 STOLE230 230 130770 SHLDN230 226 Open 130767 STOLE230 230 130770 SHLDN230 230 1		-216.2	-306.0	-0.03097		-0.02411	-198.0	-267.9
			28292	2902.5	5355.9		L: Interface	59 MarcySouthS C:130753 FRASR345 345 147831 GILB 345 203 Open 130753 FRASR345 345 147831 GILB 345 345 1		1810.7	3048.0	0.42629		0.35766	1733.8	2771.9
			28314	2917.8	5364.5		L:135872	SOUR-111 115 135873 SWDN-111 115 1 C:130754 KINTI345 345 147834 NIAG 345 204 Open 130754 KINTI345 345 147834 NIAG 345 345 1		69.8	159.0	0.03056		0.02407	71.5	141.8
			28327	2921.1	5366.5		L:135851	SHEL-113 115 135874 SWDN-113 115 1 C:130754 KINTI345 345 149000 ROCH 345 205 Open 130754 KINTI345 345 149000 ROCH 345 345 1		88.6	180.0	0.03128		0.02436	70.0	141.1
			28333	2923.1	5367.6		L:130770	SHLDN230 230 131122 WTHRS230 230 1 C:130754 KINTI345 345 149000 ROCH 345 205 Open 130754 KINTI345 345 149000 ROCH 345 345 1		262.8	540.0	0.09483		0.08335	231.9	475.6
			28338	2930.8	5371.9		L:137453	N.SCOT99 345 147833 MARCY T1 345 1 C:BUS:N.S._771 615 Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1		-1122.6	-1792.0	-0.22839		-0.18542	-917.3	-1460.7
													-0.09197	-0.04334	-242.4	-369.4



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.02619	0.00032	113.3	114.3	
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.28818	0.17278	820.4	1326.8	
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.06914	-0.04086	-84.4	-204.2	
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.13842	0.00000	0.0	0.0	
			28342	2934.2	5373.8		L:130753 FRASR345 345 147831 GILB 345 345 1			670.4	1524.0	0.29091		0.18814	210.7	762.7	
							C:130750 COOPC345 345 130753 FRASR345		192								
							Open 130750 COOPC345 345 130753 FRASR345		345 1					-0.46259	-0.22216	-993.8	-1645.6
			28348	2940	5377.1*		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			38.9	143.0	0.03539		0.03549	17.2	121.5	
							C:131128 LAPEER 345 136153 LAFAYTTE		392								
							Open 131128 LAPEER 345 136153 LAFAYTTE		345 1					-0.03223	0.00296	-675.2	-666.5
			28353	2943	5378.8		L:130770 SHLDN230 230 131122 WTHRS230 230 1			297.5	540.0	0.08238		0.08335	231.9	477.2	
							C:BUS:WATERCURE_3451		633								
							Open 130757 WATRC345 345 200769 HOMER CY		345 1					-0.06554	-0.11389	-547.8	-883.0
							Open 130757 WATRC345 345 130768 WATRC230		230 1					0.11714	-0.07197	264.1	52.3
							Open 130755 OAKDL345 345 130757 WATRC345		345 1					-0.05466	0.00000	22.7	22.7
			28360	2947.3	5381.2		L:135850 SOUR-114 115 135876 TELRDTPI 115 1			-85.1	-180.0	-0.03218		-0.02506	-66.0	-139.8	
							C:130754 KINTI345 345 149000 ROCH 345		205								
							Open 130754 KINTI345 345 149000 ROCH 345		345 1					-0.03671	0.19408	521.8	1093.8
			28361	2947.5	5381.4		L: Interface 59 MarcySouthS			1893.6	3048.0	0.39165		0.35766	1733.8	2788.1	
							C:BUS:N.S._771		615								
							Open 137452 N.SCOT77 345 137453 N.SCOT99		345 1					-0.06563	-0.04334	-242.4	-370.1
							Open 137452 N.SCOT77 345 137516 N.SCOT1		115 1					-0.04917	0.00032	113.3	114.3
							Open 137200 EDIC 345 137452 N.SCOT77		345 1					0.18354	0.17278	820.4	1329.7
							Open 137450 ALPS345 345 137452 N.SCOT77		345 1					0.01360	-0.04086	-84.4	-204.9
							Open 137451 LEEDS 3 345 137452 N.SCOT77		345 1					-0.01140	0.00000	0.0	0.0
			28366	2954.1	5385.1		L:135858 GOLAH115 115 135862 MUMFORD1 115 1			-63.5	-173.0	-0.03707		-0.02891	-41.6	-126.9	
							C:130754 KINTI345 345 149000 ROCH 345		205								
							Open 130754 KINTI345 345 149000 ROCH 345		345 1					-0.04206	0.19408	521.8	1095.1
			28367	2955	5385.6		L:137200 EDIC 345 137452 N.SCOT77 345 1			820.4	1331.0	0.17278					
							Base Case										
			28369	2955.9	5386.1		L:130794 DELHI115 115 130838 OAKDL115 115 1			-73.8	-179.0	-0.03560		-0.01879	-40.4	-95.9	
							C:130753 FRASR345 345 130755 OAKDL345		200								
							Open 130753 FRASR345 345 130755 OAKDL345		345 1					0.05900	-0.28478	-566.1	-1407.9
			28372	2963	5390.1		L: Interface 19 PJM-NY			2403.4	3114.0	0.23984		0.23984	1506.8	2217.4	
							C:GEN:SEAB&OMS1		576								
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2					-0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			28373	2963	5390.1		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4	
							C:GEN:SEAB&OMS1		576								
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2					0.00004	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			28374	2963	5390.1		L: Interface 19 PJM-NY			2403.4	3114.0	0.23984		0.23984	1506.8	2217.4	
							C:GEN:SEABROOK1		574								
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			28375	2963	5390.1		L: Interface 35 NY-PJM			-2403.4	-3114.0	-0.23984		-0.23984	-1506.8	-2217.4	
							C:GEN:SEABROOK1		574								
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			28382	2971.9	5395.1		L:137451 LEEDS 3 345 137455 ATHENS 345 1			983.5	1725.0	0.24949		0.17197	433.7	944.8	
							C:126294 PLTVLLEY 345 137451 LEEDS 3		120								
							Open 126294 PLTVLLEY 345 137451 LEEDS 3		345 2					-0.42902	-0.18071	-1281.5	-1818.6
			28385	2980.8	5400.2		L: Interface 19 PJM-NY			2399.1	3114.0	0.23984		0.23984	1506.8	2221.7	
							C:SIN:2501		678								
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2					-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW dispatch								
			28386	2980.8	5400.2		L: Interface 35 NY-PJM			-2399.1	-3114.0	-0.23984		-0.23984	-1506.8	-2221.7	
							C:SIN:2501		678								
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2					0.00004	0.00000	-0.1	-0.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28390	2985	5402.5		L:146769	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch RAMP138 138 146773 SGRLF138 138 2			-151.4	-351.0	-0.06688	-0.03505	8.3	-96.3
								C:SIN:4401		684						
			28391	2985	5402.5		L:146769	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 RAMP138 138 146773 SGRLF138 138 2			-151.4	-351.0	-0.06688	-0.03505	8.3	-96.3
								C:125001 ROCK TAV 345 126297 RAMAPO		7						
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.14310	0.22243	1116.0	1779.9
			28392	2988.2	5404.4		L:130836	N.WAV115 115 131018 LOUNSI15 115 1			-9.7	173.0	0.06113	0.03549	20.7	126.8
								C:BUS:WATERCURE_2301		634						
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.24197	0.05180	73.0	227.8
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.18210	-0.07197	264.1	49.0
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.12851	0.00000	0.5	0.5
			28394	2991.4	5406.2		L:130770	SHLDN230 230 131122 WTHRS230 230 1			246.4	540.0	0.09816	0.08335	231.9	481.3
								C:LKWANA-OXBWL		652						
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					-0.11660	-0.12699	-123.7	-503.5
			28397	2992.7	5406.9		L:130768	WATRC230 230 130772 SHRED230 230 1			140.7	440.0	0.10001	0.05180	73.0	228.0
								C:130755 OAKDL345 345 130757 WATRC345		206						
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.25937	-0.18586	-261.1	-817.3
			28400	2994.9	5408.1*		L:130848	S.OWE115 115 131850 CNYOG115 115 1			-37.0	-143.0	-0.03539	-0.03549	-15.2	-121.5
								C:131128 LAPEER 345 136153 LAFAYTTE		392						
								Open 131128 LAPEER 345 136153 LAFAYTTE 345 1					0.03223	0.00296	-675.2	-666.4

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- FRI, APR 16 2010 11:21 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\sum18tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33732  
 First violation - -168790.9 MW.

Interface-1 Interface 5 TOTAL EAST Init.Flow= 5751.36 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_E_EXP	GHI_IMPORT	3000.0	1	-168790	-163039		L: Interface	21 PJM-WEST		5144.2	0.0	0.03048		0.04851	5119.7	-3068.1
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230 200675 E.TWANDA 230 1				0.06508	0.00121	-15.5	-220.4
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.17331	-0.07681	116.1	13081.4
								Open 381 TOWANDA	115 200675 E.TWANDA 230 1				0.01303	-0.00624	-52.6	1001.3
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.14729	-0.03203	40.8	5446.7
			2	-168568	-162816		L: Interface	21 PJM-WEST		5145.8	0.0	0.03053		0.04851	5119.7	-3057.3
								C:SER:ETHS/NWES1	607							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.17129	-0.07681	116.1	13064.3
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.15067	-0.03203	40.8	5439.6
			3	-150404	-144653		L: Interface	21 PJM-WEST		5140.3	0.0	0.03418		0.04851	5119.7	-2176.2
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.13790	-0.07681	116.1	11669.1
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				0.12173	-0.03072	37.4	4658.5
			4	-131914	-126163		L: Interface	21 PJM-WEST		5134.2	0.0	0.03892		0.04851	5119.7	-1279.3
								C:130763 HILSD230	2							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.12483	-0.07681	116.1	10248.8
			5	-124161	-118409		L: Interface	21 PJM-WEST		5130.8	0.0	0.04132		0.04851	5119.7	-903.2
								C:130763 HILSD230	2							
								Open 130763 HILSD230	230 130768 WATRC230 230 1				-0.05805	0.12377	-190.6	-15557.8
			6	-121885	-116134		L: Interface	21 PJM-WEST		5137.5	0.0	0.04215		0.04851	5119.7	-792.8
								C:BUS:WATERCURE_2301	634							
								Open 130768 WATRC230	230 130772 SHRED230 230 1				-0.02068	0.05180	73.0	-6240.8
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.07347	-0.07197	264.1	9035.8
								Open 130763 HILSD230	230 130768 WATRC230 230 1				-0.18954	0.00000	0.5	0.5
			7	-118791	-113040		L: Interface	21 PJM-WEST		5050.1	0.0	0.04251		0.04851	5119.7	-642.7
								C:MULT041	657							
								Open 9 JUNIATA	500 21 SUNBURY 500 1				-0.13385	0.04394	526.9	-4693.3
								Open 21 SUNBURY	500 3084 SUNBURY 230 24				-0.00697	0.01650	-120.9	-2080.7
			8	-117669	-111918		L: Interface	21 PJM-WEST		5137.5	0.0	0.04366		0.04851	5119.7	-588.3
								C:130757 WATRC345	3							
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.06737	-0.07197	264.1	8732.4
			9	-113038	-107286		L: Interface	21 PJM-WEST		5189.8	0.0	0.04591		0.04851	5119.7	-363.6
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345	345 200769 HOMER CY 345 1				-0.17843	0.01428	-377.8	-1992.1
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.07359	0.00066	-35.9	-110.9
			10	-112373	-106621	*	L: Interface	21 PJM-WEST		5182.9	0.0	0.04612		0.04851	5119.7	-331.4
								C:135398 SW345	3							
								Open 135398 SW345	345 200769 HOMER CY 345 1				-0.16713	0.01428	-377.8	-1982.6
			1756	-76536.8	-70785.5		L: Interface	20 PJM-CENT		3534.1	0.0	0.04617		0.10355	3274.5	-4651.1
								C:126260 BOWLINE1	3							

From	To	Transfer Level	N	FCITC	Interface-1	PLSg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			1762	-58763.2	-53011.9		L: Interface	Open 126260 BOWLINE1 20 PJM-CENT	345 146750 WHAV345 345 10	3475.2	0.0	0.05914	-0.55144	0.10405	-470.6	-8434.6
								C:SIN:301	666							
								Open 126260 BOWLINE1	345 146841 BOWL 20.0 1							
								Open 126260 BOWLINE1	345 146750 WHAV345 345 10				-0.42591	0.10405	-470.6	-6585.2
								Open 126290 LADENTWN	345 146750 WHAV345 345 1				-0.00103	0.09522	-170.9	-5766.1
			1763	-52472.9	-46721.5		L: Interface	20 PJM-CENT		3233.7	0.0	0.06163		0.10355	3274.5	-2159.2
								C:LKWANA-OXW1	652							
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				0.33015	-0.12699	-123.7	6540.0
			1764	-50407.2	-44655.9		L: Interface	20 PJM-CENT		3327.1	0.0	0.06600		0.10355	3274.5	-1945.3
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.28217	-0.07681	116.1	3988.0
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.25854	-0.03203	40.8	1655.2
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				0.24719	-0.03072	37.4	1586.1
			1765	-42325.9	-36574.6		L: Interface	20 PJM-CENT		3308.8	0.0	0.07817		0.10355	3274.5	-1108.5
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230 200675 E.TWANDA 230 1				0.09832	0.00121	-15.5	-66.9
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.24421	-0.07681	116.1	3367.2
								Open 381 TOWANDA	115 200675 E.TWANDA 230 1				0.01929	-0.00624	-52.6	211.7
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.20672	-0.03203	40.8	1396.4
			1766	-42317	-36565.6		L: Interface	20 PJM-CENT		3311.2	0.0	0.07825		0.10355	3274.5	-1107.5
								C:SER:ETHS/NWES1	607							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.24118	-0.07681	116.1	3366.5
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.21172	-0.03203	40.8	1396.1
			1767	-39597.7	-33846.4		L: Interface	20 PJM-CENT		3303.4	0.0	0.08342		0.10355	3274.5	-825.9
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.19413	-0.07681	116.1	3157.7
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				0.16981	-0.03072	37.4	1254.0
			1768	-38348.8	-32597.5		L: Interface	20 PJM-CENT		3971.1	0.0	0.10355		0.10355	3274.5	-696.6
								C:GEN:PEACHBTM1	569							
								Remove unit 1 from bus	34 PCHBTM 2 22.0 1059.5 MW dispatch							
			1769	-37854.9	-32103.5		L: Interface	20 PJM-CENT		3920.0	0.0	0.10355		0.10355	3274.5	-645.5
								C:GEN:SALEM1	568							
								Remove unit 1 from bus	36 SALEM-G1 22.0 1117.3 MW dispatch							
			1770	-36632.7	-30881.4 *		L: Interface	20 PJM-CENT		3793.4	0.0	0.10355		0.10355	3274.5	-518.9
								C:SIN:2501	678							
								Open 100508 SANDB115	115 100509 SB RCTOR 115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus	103563 MILL#3 24.0 1276.0 MW dispatch							
			3525	-7164.1	-1412.7		L: Interface	47 C-PJMWest		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
								C:130755 OAKDL345	34 206							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.25046	-0.18586	-261.1	1070.4
			3526	-7164.1	-1412.7		L: Interface	48 PJMWest-C		482.4	0.0	0.06734		0.11389	547.8	-268.1
								C:130755 OAKDL345	34 206							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.25046	-0.18586	-261.1	1070.4
			3527	-7164.1	-1412.7		L: Interface	60 C2PJM		-482.4	0.0	-0.06734		-0.11389	-547.8	268.1
								C:130755 OAKDL345	34 206							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.25046	-0.18586	-261.1	1070.4
			3528	-7164.1	-1412.7		L: Interface	61 PJMC2C		482.4	0.0	0.06734		0.11389	547.8	-268.1
								C:130755 OAKDL345	34 206							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.25046	-0.18586	-261.1	1070.4
			3529	-5962	-210.7		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
								C:SIN:1201	668							
								Open 126263 BUCHANAN S	345 126291 MILLWOOD 345 1				0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126291 MILLWOOD 345 2				0.00650	-0.13991	785.6	1619.8
								Open 126263 BUCHANAN S	345 126290 LADENTWN 345 1				-0.04989	0.23158	39.8	-1340.9
								Open 126263 BUCHANAN S	345 147832 IP3 345 345 1							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1							
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2							
								Remove unit 1 from bus	147798 IP#3 GEN 22.0 1072.8 MW dispatch							

From	To	Transfer Level	N	FCITC	Interface-1	PLSg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3530	-5962	-210.7		L: Interface	60 C2PJMC		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3531	-5962	-210.7		L: Interface	47 C-PJWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3532	-5962	-210.7		L: Interface	47 C-PJWest		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3533	-5962	-210.7		L: Interface	48 PJWest-C		599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1201		668							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3534	-5962	-210.7		L: Interface	61 PJMC2C		599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3535	-5962	-210.7		L: Interface	48 PJWest-C		599.3	0.0	0.10052		0.11389	547.8	-131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.04989	0.23158	39.8	-1340.9
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1	NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2	NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW	dispatch							
			3536	-5962	-210.7		L: Interface	60 C2PJMC		-599.3	0.0	-0.10052		-0.11389	-547.8	131.2
							C:SIN:1301		669							
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.00650	-0.13991	785.6	1619.8
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.04989	0.23158	39.8	-1340.9

From	To	Transfer Level	N	FCITC	Interface-1	Flg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126263 BUCHANAN S	345 147832 IP3 345 345 1	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1	NA						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2	NA						
								Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch							
			3537	-5810.5	-59.2		L: Interface	47 C-PJMWest		-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
								C:130753 FRASR345	34	200						
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				-0.10467	-0.28478	-566.1	1088.6
			3538	-5810.5	-59.2		L: Interface	60 C2PJM		-488.6	0.0	-0.08408		-0.11389	-547.8	113.9
								C:130753 FRASR345	34	200						
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				-0.10467	-0.28478	-566.1	1088.6
			3539	-5810.5	-59.2		L: Interface	48 PJMWest-C		488.6	0.0	0.08408		0.11389	547.8	-113.9
								C:130753 FRASR345	34	200						
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				0.10467	-0.28478	-566.1	1088.6
			3540	-5810.5	-59.2		L: Interface	61 PJM2C		488.6	0.0	0.08408		0.11389	547.8	-113.9
								C:130753 FRASR345	34	200						
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				0.10467	-0.28478	-566.1	1088.6
			3541	-5627.1	124.2		L: Interface	48 PJMWest-C		589.2	0.0	0.10470		0.11389	547.8	-93.1
								C:GEN:IND PT 3-New1		774						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2				-0.03968	0.23158	-1041.8	-2344.9
			3542	-5627.1	124.2		L: Interface	47 C-PJMWest		-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
								C:GEN:IND PT 3-New1		774						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2				0.03968	0.23158	-1041.8	-2344.9
			3543	-5627.1	124.2		L: Interface	60 C2PJM		-589.2	0.0	-0.10470		-0.11389	-547.8	93.1
								C:GEN:IND PT 3-New1		774						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2				0.03968	0.23158	-1041.8	-2344.9
			3544	-5627.1	124.2		L: Interface	61 PJM2C		589.2	0.0	0.10470		0.11389	547.8	-93.1
								C:GEN:IND PT 3-New1		774						
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 1				0.00000	-0.11640	522.5	1177.5
								Open 147798 IP#3 GEN	22.0 147832 IP3 345 345 2				-0.03968	0.23158	-1041.8	-2344.9
			3545	-5586	165.3		L: Interface	48 PJMWest-C		621.0	0.0	0.11117		0.11389	547.8	-88.4
								C:SER:HC-SR_37&W-F_1711		601						
								Open 135398 SW345	345 200769 HOMER CY 345 1				-0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.06273	0.00066	-35.9	-39.6
			3546	-5586	165.3		L: Interface	47 C-PJMWest		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
								C:SER:HC-SR_37&W-F_1711		601						
								Open 135398 SW345	345 200769 HOMER CY 345 1				0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				0.06273	0.00066	-35.9	-39.6
			3547	-5586	165.3		L: Interface	61 PJM2C		621.0	0.0	0.11117		0.11389	547.8	-88.4
								C:SER:HC-SR_37&W-F_1711		601						
								Open 135398 SW345	345 200769 HOMER CY 345 1				-0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.06273	0.00066	-35.9	-39.6
			3548	-5586	165.3		L: Interface	60 C2PJM		-621.0	0.0	-0.11117		-0.11389	-547.8	88.4
								C:SER:HC-SR_37&W-F_1711		601						
								Open 135398 SW345	345 200769 HOMER CY 345 1				0.18770	0.01428	-377.8	-457.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				0.06273	0.00066	-35.9	-39.6
			3549	-5575.3	176		L: Interface	60 C2PJM		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
								C:GEN:IND PT 2-New1		773						
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-1138.6
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 2				0.03827	0.22576	-1018.5	-2277.2
			3550	-5575.3	176		L: Interface	48 PJMWest-C		586.8	0.0	0.10525		0.11389	547.8	-87.2
								C:GEN:IND PT 2-New1		773						
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-1138.6
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 2				-0.03827	0.22576	-1018.5	-2277.2
			3551	-5575.3	176		L: Interface	47 C-PJMWest		-586.8	0.0	-0.10525		-0.11389	-547.8	87.2
								C:GEN:IND PT 2-New1		773						
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-1138.6

From	To	Transfer Level	N	FCITC	Interface-1	Flg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3552	-5575.3	176		L: Interface	Open 126288 IP2 345 61 PJMC2C	345 126651 IND PT 2 22.0 2	586.8	0.0	0.10525	0.03827	0.22576	-1018.5	-2277.2
								C:HQ-NY-765-New1	773							
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 1				0.00000	0.11288	-509.2	-1138.6
								Open 126288 IP2 345	345 126651 IND PT 2 22.0 2				-0.03827	0.22576	-1018.5	-2277.2
			3553	-5549.4	202		L: Interface	48 PJMWest-C		634.0	0.0	0.11425		0.11389	547.8	-84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				0.02482	0.00782	624.3	580.8
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				0.02482	0.00680	543.3	505.5
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	51.3
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				-0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3554	-5549.4	202		L: Interface	60 C2PJMC		-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				-0.02482	0.00782	624.3	580.8
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				-0.02482	0.00680	543.3	505.5
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	51.3
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3555	-5549.4	202		L: Interface	47 C-PJMWest		-634.0	0.0	-0.11425		-0.11389	-547.8	84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				-0.02482	0.00782	624.3	580.8
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				-0.02482	0.00680	543.3	505.5
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	51.3
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3556	-5549.4	202		L: Interface	61 PJMC2C		634.0	0.0	0.11425		0.11389	547.8	-84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				0.02482	0.00782	624.3	580.8
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				0.02482	0.00680	543.3	505.5
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	51.3
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				-0.05509	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3557	-5524.2	227.2		L: Interface 47 C-PMMWest			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345	34	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1				0.17807	0.01428	-377.8	-456.7	
			3558	-5524.2	227.2		L: Interface 60 C2PJM			-615.1	0.0	-0.11135		-0.11389	-547.8	81.3
							C:135398 SW345	34	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1				0.17807	0.01428	-377.8	-456.7	
			3559	-5524.2	227.2		L: Interface 61 PJMC2C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345	34	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1					-0.17807	0.01428	-377.8	-456.7
			3560	-5524.2	227.2		L: Interface 48 PJMWest-C			615.1	0.0	0.11135		0.11389	547.8	-81.3
							C:135398 SW345	34	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1					-0.17807	0.01428	-377.8	-456.7
			3561	-5517.4	234 *		L: Interface 60 C2PJM			-628.4	0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus	136700 9M PT 2G 25.0 1198.7 MW dispatch								
			3562	-5517.4	234 *		L: Interface 48 PJMWest-C			628.4	0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus	136700 9M PT 2G 25.0 1198.7 MW dispatch								
			3563	-5517.4	234 *		L: Interface 47 C-PMMWest			-628.4	0.0	-0.11389		-0.11389	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus	136700 9M PT 2G 25.0 1198.7 MW dispatch								
			3564	-5517.4	234 *		L: Interface 61 PJMC2C			628.4	0.0	0.11389		0.11389	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus	136700 9M PT 2G 25.0 1198.7 MW dispatch								
			3601	-5252.6	498.7		L: Interface 55 PJME-NYEnORE			1498.1	1287.0	0.04020		0.00000	1299.4	1299.4
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.35376	-0.11389	-547.8	50.4
							Open 135277 FALCONER	115 200579 WARREN 115 1					-0.13836	0.00066	-35.9	-39.3
			3602	-5252.6	498.7		L: Interface 56 NYE-PJMEEnORE			-1498.1	-1287.0	-0.04020		0.00000	-1299.4	-1299.4
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.35376	-0.11389	-547.8	50.4
							Open 135277 FALCONER	115 200579 WARREN 115 1					0.13836	0.00066	-35.9	-39.3
			3635	-5118.8	632.5		L: Interface 55 PJME-NYEnORE			1492.4	1287.0	0.04012		0.00000	1299.4	1299.4
							C:130757 WATRC345	34	374							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.35224	-0.11389	-547.8	35.2
			3636	-5118.8	632.5		L: Interface 56 NYE-PJMEEnORE			-1492.4	-1287.0	-0.04012		0.00000	-1299.4	-1299.4
							C:130757 WATRC345	34	374							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.35224	-0.11389	-547.8	35.2
			3677	-5022.6	728.7		L: Interface 52 PJMEast-G			239.7	0.0	0.04772		0.00000	0.3	0.3
							C:125001 ROCK TAV	34	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					0.21456	0.22243	1116.0	-1.2
			3678	-5022.6	728.7		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04772		0.00000	-0.3	-0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					-0.21456	0.22243	1116.0	-1.2
			3679	-5022.6	728.7		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04772		0.00000	-0.3	-0.3



From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:125001 ROCK TAV	34								
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1								
			3680	-5022.6	728.7		L: Interface	52 PJMEast-G		239.7	0.0	0.04772		0.00000	0.3	0.3	
								C:SIN:4401									
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					0.21456	0.22243	1116.0	-1.2
			10225	-4788.7	962.7		L: Interface	55 PJME-NYEnoRE		1475.1	1287.0	0.03929		0.00000	1299.4	1299.4	
								C:130750 COOPC345	34								
								Open 130750 COOPC345	345 130753 FRASR345 345 1					-0.17684	-0.22216	-993.8	70.0
			10226	-4788.7	962.7		L: Interface	56 NYE-PJMENoRE		-1475.1	-1287.0	-0.03929		0.00000	-1299.4	-1299.4	
								C:130750 COOPC345	34								
								Open 130750 COOPC345	345 130753 FRASR345 345 1					0.17684	-0.22216	-993.8	70.0
			10555	-4480.8	1270.6		L: Interface	51 G-PJMEast		-154.0	0.0	-0.03438		0.00000	-0.3	-0.3	
								C:130750 COOPC345	34								
								Open 130750 COOPC345	345 130753 FRASR345 345 1					0.15474	-0.22216	-993.8	1.6
			10556	-4480.8	1270.6		L: Interface	52 PJMEast-G		154.0	0.0	0.03438		0.00000	0.3	0.3	
								C:130750 COOPC345	34								
								Open 130750 COOPC345	345 130753 FRASR345 345 1					-0.15474	-0.22216	-993.8	1.6
			10565	-4193.6	1557.8		L: Interface	55 PJME-NYEnoRE		1487.8	1287.0	0.04789		0.00000	1299.4	1299.4	
								C:SER:HCWC/NWES1									
								Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					-0.21507	-0.03203	40.8	175.1
			10566	-4193.6	1557.8		L: Interface	56 NYE-PJMENoRE		-1487.8	-1287.0	-0.04789		0.00000	-1299.4	-1299.4	
								C:SER:HCWC/NWES1									
								Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.36005	-0.11389	-547.8	-70.2
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.21507	-0.03203	40.8	175.1
			10579	-3912.4	1838.9		L: Interface	51 G-PJMEast		-124.9	0.0	-0.03191		0.00000	-0.3	-0.3	
								C:SER:HCWC/NWES1									
								Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.14830	-0.03203	40.8	166.1
			10580	-3912.4	1838.9		L: Interface	52 PJMEast-G		124.9	0.0	0.03191		0.00000	0.3	0.3	
								C:SER:HCWC/NWES1									
								Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.23852	-0.11389	-547.8	-102.2
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					-0.14830	-0.03203	40.8	166.1
			10593	-3704.4	2046.9		L: Interface	63 PJMW2C		513.2	0.0	0.13854		0.25346	353.6	-585.3	
								C:ETHS/NWES/LLGD1									
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1					0.85100	-0.03072	37.4	151.2
			10594	-3704.4	2046.9		L: Interface	62 C2PJMW		-513.2	0.0	-0.13854		-0.25346	-353.6	585.3	
								C:ETHS/NWES/LLGD1									
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					-0.80842	-0.07681	116.1	400.6
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					-0.83288	-0.03203	40.8	159.5
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1					-0.85100	-0.03072	37.4	151.2
			10599	-3417.6	2333.8		L: Interface	26 ONTARIO-MICH		758.6	0.0	0.22198		0.23984	733.8	-85.9	
								C:ETHS/NWES/LLGD1									
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.12796	-0.07681	116.1	378.6
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.13032	-0.03203	40.8	150.3
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1					0.12541	-0.03072	37.4	142.4
			10600	-3289.2	2462.1		L: Interface	26 ONTARIO-MICH		750.6	0.0	0.22819		0.23984	733.8	-55.1	
								C:SER:ETHS/NWES1									
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.10716	-0.07681	116.1	368.7
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.10657	-0.03203	40.8	146.2
			10601	-3288.8	2462.6		L: Interface	26 ONTARIO-MICH		750.4	0.0	0.22818		0.23984	733.8	-55.0	
								C:SER:C398/NWES1									
								Open 409 GROVER	230 200675 E.TWANDA 230 1					0.00016	0.00121	-15.5	-19.5
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.10740	-0.07681	116.1	368.7
								Open 381 TOWANDA	115 200675 E.TWANDA 230 1					0.00252	-0.00624	-52.6	-32.1
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.10591	-0.03203	40.8	146.2
			10602	-3235.9	2515.5		L: Interface	26 ONTARIO-MICH		746.7	0.0	0.23076		0.23984	733.8	-42.3	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:ETHS/LLGD1								
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.08358	-0.07681	116.1	364.6
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				0.08640	-0.03072	37.4	136.8
			10603	-3230.3	2521.1		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.23538		0.23984	733.8	-41.0
								C:W44LC1								
								Open 160062 LONGWOOD	220 160074 COWALJ44 220 1				-0.16058	0.02276	189.0	115.5
								Open 160074 COWALJ44	220 160134 BUCHJW44 220 1				0.16305	-0.00491	334.6	350.4
								Open 160054 BUCHANAN	220 160134 BUCHJW44 220 1				-0.00035	0.00491	-256.3	-272.2
								Open 160055 CHATHAM	220 160074 COWALJ44 220 1				0.71978	0.00000	3.1	3.1
			10604	-3230.1	2521.3		L: Interface	26 ONTARIO-MICH		760.3	0.0	0.23539		0.23984	733.8	-40.9
								C:W45LC1								
								Open 160062 LONGWOOD	220 160075 COWALJ45 220 1				-0.16052	0.02274	189.0	115.6
								Open 160075 COWALJ45	220 160135 BUCHJW45 220 1				0.16299	-0.00490	334.4	350.3
								Open 160054 BUCHANAN	220 160135 BUCHJW45 220 1				-0.00035	0.00490	-262.6	-278.4
								Open 160055 CHATHAM	220 160075 COWALJ45 220 1				0.71974	0.00000	3.1	3.1
			10605	-3215.2	2536.1		L: Interface	26 ONTARIO-MICH		770.6	0.0	0.23968		0.23984	733.8	-37.3
								C:131128 LAPEER	345 131128 LAPEER 345 1							
								Open 131128 LAPEER	345 136153 LAFAYTTE 345 1				-0.05454	0.00296	-675.2	-684.8
			10606	-3200.3	2551.1		L: Interface	26 ONTARIO-MICH		719.0	0.0	0.22467		0.23984	733.8	-33.8
								C:LKWANA-OXBW1								
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				0.11942	-0.12699	-123.7	282.8
			10607	-3197.5	2553.9		L: Interface	26 ONTARIO-MICH		770.0	0.0	0.24082		0.23984	733.8	-33.1
								C:130755 OAKDL345	345 131128 LAPEER 345 1							
								Open 130755 OAKDL345	345 131128 LAPEER 345 1				-0.06047	-0.01619	-599.0	-547.2
			10608	-3178.3	2573	*	L: Interface	26 ONTARIO-MICH		746.8	0.0	0.23497		0.23984	733.8	-28.5
								C:KEY-SHELOCTA/BLAIRSVL								
								Open 505 SHELOCTA	230 521 KEYSTONE 230 1				0.08780	-0.04571	48.1	193.3
								Open 473 BLAIRSVL	138 235253 OLSOCIAL 138 1				0.08827	-0.00970	99.7	130.6
			12298	-2956.3	2795.1		L: Interface	56 NYE-PJMENoRE		-1478.3	-1287.0	-0.06473		0.00000	-1299.4	-1299.4
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.44203	-0.11389	-547.8	-211.1
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.19985	-0.07197	264.1	476.8
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.46005	0.00000	22.7	22.7
			12299	-2956.3	2795.1		L: Interface	55 PJME-NYEnoRE		1478.3	1287.0	0.06473		0.00000	1299.4	1299.4
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.44203	-0.11389	-547.8	-211.1
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.19985	-0.07197	264.1	476.8
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.46005	0.00000	22.7	22.7
			12339	-2729.4	3022		L: Interface	51 G-PJMEast		-118.6	0.0	-0.04345		0.00000	-0.3	-0.3
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.29477	-0.11389	-547.8	-237.0
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.13719	-0.07197	264.1	460.5
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.30599	0.00000	22.7	22.7
			12340	-2729.4	3022		L: Interface	52 PJMEast-G		118.6	0.0	0.04345		0.00000	0.3	0.3
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.29477	-0.11389	-547.8	-237.0
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.13719	-0.07197	264.1	460.5
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.30599	0.00000	22.7	22.7
			12350	-2537.3	3214.1		L: Interface	62 C2PJMW		-458.4	0.0	-0.18068		-0.25346	-353.6	289.5
								C:SER:ETHS/NWES1								
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				-0.66732	-0.07681	116.1	310.9
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				-0.67169	-0.03203	40.8	122.1
			12351	-2537.3	3214.1		L: Interface	63 PJMW2C		458.4	0.0	0.18068		0.25346	353.6	-289.5
								C:SER:ETHS/NWES1								
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.66732	-0.07681	116.1	310.9
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.67169	-0.03203	40.8	122.1
			12352	-2533.4	3218		L: Interface	62 C2PJMW		-457.5	0.0	-0.18060		-0.25346	-353.6	288.5
								C:SER:C398/NWES1								
								Open 409 GROVER	230 200675 E.TWANDA 230 1				-0.00111	0.00121	-15.5	-18.6

From	To	Transfer Level	N	FCITC	Interface-1	Flg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					-0.66891	-0.07681	116.1	310.7
								Open 381 TOWANDA	115 200675 E.TWANDA 230 1					-0.01713	-0.00624	-52.6	-36.8
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					-0.66726	-0.03203	40.8	122.0
			12353	-2533.4	3218		L: Interface	63 PJMW2C		457.5	0.0	0.18060		0.25346	353.6	-288.5	
								C:SER:C398/NWES1		606							
								Open 409 GROVER	230 200675 E.TWANDA 230 1					0.00111	0.00121	-15.5	-18.6
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.66891	-0.07681	116.1	310.7
								Open 381 TOWANDA	115 200675 E.TWANDA 230 1					0.01713	-0.00624	-52.6	-36.8
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					0.66726	-0.03203	40.8	122.0
			12364	-2244.8	3506.6		L: Interface	63 PJMW2C		437.0	0.0	0.19466		0.25346	353.6	-215.4	
								C:ETHS/LLGD1		650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.52482	-0.07681	116.1	288.5
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1					0.60169	-0.03072	37.4	106.3
			12365	-2244.8	3506.6		L: Interface	62 C2PJMW		-437.0	0.0	-0.19466		-0.25346	-353.6	215.4	
								C:ETHS/LLGD1		650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1					-0.52482	-0.07681	116.1	288.5
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1					-0.60169	-0.03072	37.4	106.3
			12370	-2149.4	3602		L: Interface	55 PJME-NYEnoRE		1451.8	1287.0	0.07669		0.00000	1299.4	1299.4	
								C:130753 FRASR345	345 130755 OAKDL345 345 1	200				-0.26930	-0.28478	-566.1	46.0
			12371	-2149.4	3602		L: Interface	56 NYE-PJMENoRE		-1451.8	-1287.0	-0.07669		0.00000	-1299.4	-1299.4	
								C:130753 FRASR345	345 130755 OAKDL345 345 1	200				0.26930	-0.28478	-566.1	46.0
			12374	-2070.6	3680.7		L: Interface	63 PJMW2C		524.8	0.0	0.25346		0.25346	353.6	-171.2	
								C:GEN:9 MI PT21		562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			12375	-2070.6	3680.7		L: Interface	62 C2PJMW		-524.8	0.0	-0.25346		-0.25346	-353.6	171.2	
								C:GEN:9 MI PT21		562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			12376	-2063.5	3687.9		L: Interface	62 C2PJMW		-524.2	0.0	-0.25406		-0.25346	-353.6	169.4	
								C:HQ-NY-765-New1		777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA							
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA							
								Open 147827 MARCY765	765 147833 MARCY T1 345 1					-0.04110	0.00782	624.3	608.1
								Open 147827 MARCY765	765 147833 MARCY T1 345 2					-0.04110	0.00680	543.3	529.3
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA							
								Open 147838 MASS230B	230 147839 MOSES E 230 1	NA				0.00000	-0.00731	10.7	25.8
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA							
								Open 147837 MASS230A	230 147839 MOSES E 230 1	NA				0.11489	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch								
			12377	-2063.5	3687.9		L: Interface	63 PJMW2C		524.2	0.0	0.25406		0.25346	353.6	-169.4	
								C:HQ-NY-765-New1		777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA							
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA							
								Open 147827 MARCY765	765 147833 MARCY T1 345 1					0.04110	0.00782	624.3	608.1
								Open 147827 MARCY765	765 147833 MARCY T1 345 2					0.04110	0.00680	543.3	529.3
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA							
								Open 147838 MASS230B	230 147839 MOSES E 230 1	NA				0.00000	-0.00731	10.7	25.8
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA							
								Open 147837 MASS230A	230 147839 MOSES E 230 1	NA				-0.11489	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA							
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA							
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA							

From	To	Transfer Level	N	FCITC	Interface-1	Flg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			12378	-1992.6	3758.7		L: Interface	52 PJMEast-G		105.6	0.0	0.05302		0.00000	0.3	0.3	
								C:130753 FRASR345 3	200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.18617	-0.28478	-566.1	1.4	
			12379	-1992.6	3758.7		L: Interface	51 G-PJMEast		-105.6	0.0	-0.05302		0.00000	-0.3	-0.3	
								C:130753 FRASR345 3	200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.18617	-0.28478	-566.1	1.4	
			12380	-1866	3885.4		L: Interface	62 C2PJMW		-407.0	0.0	-0.21811		-0.25346	-353.6	119.4	
								C:130763 HILSD230 2	375								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					-0.46019	-0.07681	116.1	259.4	
			12381	-1866	3885.4		L: Interface	63 PJMW2C		407.0	0.0	0.21811		0.25346	353.6	-119.4	
								C:130763 HILSD230 2	375								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.46019	-0.07681	116.1	259.4	
			12382	-1865.2	3886.1		L: Interface	63 PJMW2C		471.8	0.0	0.25294		0.25346	353.6	-119.2	
								C:131128 LAPEER 3	392								
								Open 131128 LAPEER 345 136153 LAFAYTTE 345 1					-0.17507	0.00296	-675.2	-680.8	
			12383	-1865.2	3886.1		L: Interface	62 C2PJMW		-471.8	0.0	-0.25294		-0.25346	-353.6	119.2	
								C:131128 LAPEER 3	392								
								Open 131128 LAPEER 345 136153 LAFAYTTE 345 1					0.17507	0.00296	-675.2	-680.8	
			12386	-1847.1	3904.3		L: Interface	55 PJME-NYEnoRE		1353.2	1287.0	0.03586		0.00000	1299.4	1299.4	
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.12877	0.27848	418.2	-96.2	
			12387	-1847.1	3904.3		L: Interface	56 NYE-PJMENoRE		-1353.2	-1287.0	-0.03586		0.00000	-1299.4	-1299.4	
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.12877	0.27848	418.2	-96.2	
			12388	-1844.4	3907		L: Interface	63 PJMW2C		467.5	0.0	0.25346		0.25346	353.6	-113.9	
								C:GEN:SEAB&OMS1	576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00001	0.00000	-0.1	-0.1	
			12389	-1844.4	3907		L: Interface	62 C2PJMW		-467.5	0.0	-0.25346		-0.25346	-353.6	113.9	
								C:GEN:SEAB&OMS1	576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					-0.00001	0.00000	-0.1	-0.1	
			12390	-1844.4	3907 *		L: Interface	63 PJMW2C		467.5	0.0	0.25346		0.25346	353.6	-113.9	
								C:GEN:SEABROOK1	574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			12391	-1844.4	3907 *		L: Interface	62 C2PJMW		-467.5	0.0	-0.25346		-0.25346	-353.6	113.9	
								C:GEN:SEABROOK1	574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch									
			12420	-1660.7	4090.7		L: Interface	55 PJME-NYEnoRE		1367.4	1287.0	0.04842		0.00000	1299.4	1299.4	
								C:130755 OAKDL345 3	206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.26051	-0.18586	-261.1	47.5	
			12421	-1660.7	4090.7		L: Interface	56 NYE-PJMENoRE		-1367.4	-1287.0	-0.04842		0.00000	-1299.4	-1299.4	
								C:130755 OAKDL345 3	206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.26051	-0.18586	-261.1	47.5	
			12495	-1482.1	4269.2		L: Interface	40 ONT-ZoneD		46.4	0.0	0.03133		0.00000	-0.6	-0.6	
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.11251	0.27848	418.2	5.4	
			12496	-1482.1	4269.2		L: Interface	39 ZoneD-ONT		-46.4	0.0	-0.03133		0.00000	0.6	0.6	
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.11251	0.27848	418.2	5.4	
			12697	-1412.6	4338.8		L: Interface	52 PJMEast-G		46.4	0.0	0.03283		0.00000	0.3	0.3	
								C:130755 OAKDL345 3	206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.17666	-0.18586	-261.1	1.4	
			12698	-1412.6	4338.8		L: Interface	51 G-PJMEast		-46.4	0.0	-0.03283		0.00000	-0.3	-0.3	
								C:130755 OAKDL345 3	206								

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15907	-1152.3	4599.1		L: Interface	Open 130755 OAKDL345 56 NYE-PJMENoRE	345 130757 WATRC345 345 1	-1366.9	-1287.0	-0.06935	0.17666	-0.18586	-261.1	1.4
								C:LKWANA-OXBW1	652					0.00000	-1299.4	-1299.4
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				0.54606	-0.12699	-123.7	22.7
			15908	-1152.3	4599.1		L: Interface	55 PJME-NYEnoRE		1366.9	1287.0	0.06935		0.00000	1299.4	1299.4
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				-0.54606	-0.12699	-123.7	22.7
			15911	-978.9	4772.4		L: Interface	51 G-PJMEast		-47.3	0.0	-0.04833		0.00000	-0.3	-0.3
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				0.38055	-0.12699	-123.7	0.7
			15912	-978.9	4772.4		L: Interface	52 PJMEast-G		47.3	0.0	0.04833		0.00000	0.3	0.3
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				-0.38055	-0.12699	-123.7	0.7
			15913	-406.5	5344.9		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1829.3	-1725.0	-0.25658		-0.18071	-1281.5	-1208.1
								C:126294 PLTVLLEY 3	121							
								Open 126294 PLTVLLEY	345 137455 ATHENS 345 1				0.44120	-0.17197	-1241.5	-1171.6
			15914	-265.7	5485.7		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1791.3	-1725.0	-0.24949		-0.17197	-1241.5	-1195.8
								C:126294 PLTVLLEY 3	120							
								Open 126294 PLTVLLEY	345 137451 LEEDS 3 345 2				0.42902	-0.18071	-1281.5	-1233.5
			15915	1.4	5752.7		L:146758	CHESTER 138 146771 SHOEM138 138 1		-316.9	-317.0	-0.06243		-0.03422	-175.4	-175.4
								C:SIN:4401	684							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.12684	0.22243	1116.0	1116.3
			15916	1.4	5752.7		L:146758	CHESTER 138 146771 SHOEM138 138 1		-316.9	-317.0	-0.06243		-0.03422	-175.4	-175.4
								C:125001 ROCK TAV 3	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.12684	0.22243	1116.0	1116.3
			NA	96.8	5848.2	R	L:125021	DC CBLTP 115 125041 N.CHELSE 115 1		319.8	316.0	-0.03913		-0.02060	168.6	166.6
								C:125015 AC CBLTP 1	16							
								Open 125015 AC CBLTP	115 125041 N.CHELSE 115 1				0.93208	-0.01988	162.2	160.3
			NA	104.6	5855.9	R	L:125021	DC CBLTP 115 125041 N.CHELSE 115 1		320.1	316.0	-0.03913		-0.02060	168.6	166.4
								C:125015 AC CBLTP 1	15							
								Open 125015 AC CBLTP	115 125020 DANSKAMA 115 1				-0.93208	0.01988	-162.5	-160.5
			15917	273.7	6025		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1281.5	-1331.0	-0.18071				
								Base Case								
			NA	367.1	6118.5	R	L: Interface	49 C-PJMCentral		61.2	0.0	-0.16666		-0.13956	194.3	143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.23835	-0.11389	-547.8	-589.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				0.06948	0.00066	-35.9	-35.6
			15920	367.1	6118.5		L: Interface	49 C-PJMCentral		61.2	0.0	-0.16666		-0.13956	194.3	143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.23835	-0.11389	-547.8	-589.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				0.06948	0.00066	-35.9	-35.6
			15921	367.1	6118.5		L: Interface	50 PJMCentral-C		-61.2	0.0	0.16666		0.13956	-194.3	-143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.23835	-0.11389	-547.8	-589.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.06948	0.00066	-35.9	-35.6
			NA	367.1	6118.5	R	L: Interface	50 PJMCentral-C		-61.2	0.0	0.16666		0.13956	-194.3	-143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.23835	-0.11389	-547.8	-589.6
								Open 135277 FALCONER	115 200579 WARREN 115 1				-0.06948	0.00066	-35.9	-35.6
			NA	369.5	6120.8	R	L: Interface	49 C-PJMCentral		57.1	0.0	-0.15456		-0.13956	194.3	142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				-0.33373	-0.03203	40.8	29.0
			NA	369.5	6120.8	R	L: Interface	50 PJMCentral-C		-57.1	0.0	0.15456		0.13956	-194.3	-142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.22548	-0.11389	-547.8	-589.9
								Open 130836 N.WAV115	115 200676 E.SAYRE 115 1				0.33373	-0.03203	40.8	29.0
			15924	369.5	6120.8		L: Interface	49 C-PJMCentral		57.1	0.0	-0.15456		-0.13956	194.3	142.7
								C:SER:HCWC/NWES1	608							



From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15940	742.1	6493.4	*	L: Interface	Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch		103.6	0.0	-0.13956		-0.13956	194.3	90.7
								49 C-PJMCentral								
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			15941	772.3	6523.7		L: Interface	14 Leeds-PV		3102.0	3450.0	0.45057		0.35267	2523.0	2795.4
								C:125000 HURLEY 3	3							
								Open 125000 HURLEY 3	345 137451 LEEDS 3 345 1				-0.64393	-0.15203	-899.1	-1016.6
			15944	893.7	6645.1		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
								C:125002 ROSETON 3	10							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				-0.18921	-0.01700	1505.3	1490.1
			15945	893.7	6645.1		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1566.4	-1725.0	-0.17749		-0.18071	-1281.5	-1443.0
								C:SIN:4301	683							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				-0.18921	-0.01700	1505.3	1490.1
			15946	900	6651.4		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
								C:SIN:4401	684							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.16092	0.22243	1116.0	1316.2
			15947	900	6651.4		L:146771	SHOEM138 138 146772 SHOEMTAP 138 1		-625.4	-707.0	-0.09071		-0.05492	-445.8	-495.2
								C:125001 ROCK TAV 3	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.16092	0.22243	1116.0	1316.2
			15952	915.8	6667.1		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1523.8	-1725.0	-0.21970		-0.17197	-1241.5	-1399.0
								C:125000 HURLEY 3	3							
								Open 125000 HURLEY 3	345 137451 LEEDS 3 345 1				0.31399	-0.15203	-899.1	-1038.4
			15953	931.5	6682.9		L:146758	CHESTER 138 146771 SHOEM138 138 1		-260.5	-317.0	-0.06069		-0.03422	-175.4	-207.2
								C:125001 ROCK TAV 3	9							
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				0.19956	-0.13269	-426.4	-550.0
			15958	959.7	6711		L:130750	COOPC345 345 130753 FRASR345 345 1		-993.8	-1207.0	-0.22216				
								Base Case								
			15961	982.5	6733.9		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1472.9	-1725.0	-0.25658		-0.18071	-1281.5	-1459.1
								C:137451 LEEDS 3	6							
								Open 137451 LEEDS 3	345 137455 ATHENS 345 1				-0.44120	0.17197	433.7	602.7
			15976	1071.3	6822.6		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
								C:SIN:4301	683							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				0.36927	-0.01700	1505.3	1487.1
			15977	1071.3	6822.6		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34640		0.35267	2523.0	2900.8
								C:125002 ROSETON 3	10							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				0.36927	-0.01700	1505.3	1487.1
			15982	1106.3	6857.6	*	L: Interface	56 NYE-PJMENoRE		-1242.4	-1287.0	-0.04030		0.00000	-1299.4	-1299.4
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				0.35147	-0.07681	116.1	31.1
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				0.43285	-0.03072	37.4	3.4
			15983	1106.3	6857.6	*	L: Interface	55 PJME-NYEnoRE		1242.4	1287.0	0.04030		0.00000	1299.4	1299.4
								C:ETHS/LLGD1	650							
								Open 130763 HILSD230	230 200675 E.TWANDA 230 1				-0.35147	-0.07681	116.1	31.1
								Open 130807 GOUDY115	115 200680 LAUREL L 115 1				-0.43285	-0.03072	37.4	3.4
			15998	1134.2	6885.5		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1474.9	-1725.0	-0.22051		-0.18071	-1281.5	-1486.5
								C:125000 HURLEY 3	1							
								Open 125000 HURLEY 3	345 125002 ROSETON 345 1				-0.29336	0.13569	659.1	813.0
			16023	1257.9	7009.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
								C:125002 ROSETON 3	10							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				-0.18006	-0.01700	1505.3	1484.0
			16024	1257.9	7009.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1512.5	-1725.0	-0.16891		-0.17197	-1241.5	-1457.8
								C:SIN:4301	683							
								Open 125002 ROSETON	345 126281 FISHKILL 345 1				-0.18006	-0.01700	1505.3	1484.0
			16033	1277.1	7028.4		L: Interface	14 Leeds-PV		2900.4	3450.0	0.43036		0.35267	2523.0	2973.4
								C:125000 HURLEY 3	1							
								Open 125000 HURLEY 3	345 125002 ROSETON 345 1				0.57252	0.13569	659.1	832.4
			16072	1330	7081.3		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.09071		0.05492	445.8	518.8
								C:125001 ROCK TAV 3	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				0.16092	0.22243	1116.0	1411.8

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			16073	1330	7081.3		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.09071		0.05492	445.8	518.8
							C:SIN:4401			684						
							Open 125001	ROCK TAV 345 126297 RAMAPO 345 1					0.16092	0.22243	1116.0	1411.8
			16176	1364.1	7115.4		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1351.3	-1724.0	-0.27326		-0.17495	-865.1	-1103.7
							C:137451	LEEDS 3 34								
							Open 137451	LEEDS 3 345 137453 N.SCOT99 345 2					0.56507	-0.17398	-860.4	-1097.8
			16241	1376.2	7127.5		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1430.5	-1725.0	-0.21400		-0.18071	-1281.5	-1530.2
							C:130750	COOPC345 34								
							Open 130750	COOPC345 345 130753 FRASR345 345 1					0.14988	-0.22216	-993.8	-1299.5
			16256	1378.4	7129.8		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1348.2	-1724.0	-0.27263		-0.17398	-860.4	-1100.2
							C:137451	LEEDS 3 34								
							Open 137451	LEEDS 3 345 137452 N.SCOT77 345 1					0.56387	-0.17495	-865.1	-1106.2
			16321	1382.5	7133.8		L: Interface	51 G-PJMEast		74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1									
							Open 130763	HILSD230 230 200675 E.TWANDA 230 1					0.37659	-0.07681	116.1	9.9
							Open 130836	N.WAV115 115 200676 E.SAYRE 115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807	GOUDY115 115 200680 LAUREL L 115 1					0.41611	-0.03072	37.4	-5.1
			16322	1382.5	7133.8		L: Interface	52 PJMEast-G		-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1									
							Open 130763	HILSD230 230 200675 E.TWANDA 230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836	N.WAV115 115 200676 E.SAYRE 115 1					-0.38829	-0.03203	40.8	-3.4
							Open 130807	GOUDY115 115 200680 LAUREL L 115 1					-0.41611	-0.03072	37.4	-5.1
			NA	1382.5	7133.8	R	L: Interface	51 G-PJMEast		74.9	0.0	-0.05415		0.00000	-0.3	-0.3
							C:ETHS/NWES/LLGD1									
							Open 130763	HILSD230 230 200675 E.TWANDA 230 1					0.37659	-0.07681	116.1	9.9
							Open 130836	N.WAV115 115 200676 E.SAYRE 115 1					0.38829	-0.03203	40.8	-3.4
							Open 130807	GOUDY115 115 200680 LAUREL L 115 1					0.41611	-0.03072	37.4	-5.1
			NA	1382.5	7133.8	R	L: Interface	52 PJMEast-G		-74.9	0.0	0.05415		0.00000	0.3	0.3
							C:ETHS/NWES/LLGD1									
							Open 130763	HILSD230 230 200675 E.TWANDA 230 1					-0.37659	-0.07681	116.1	9.9
							Open 130836	N.WAV115 115 200676 E.SAYRE 115 1					-0.38829	-0.03203	40.8	-3.4
							Open 130807	GOUDY115 115 200680 LAUREL L 115 1					-0.41611	-0.03072	37.4	-5.1
			16351	1384	7135.3		L:130750	COOPC345 345 130753 FRASR345 345 1		-1314.3	-1703.0	-0.28085		-0.22216	-993.8	-1301.3
							C:130750	COOPC345 34								
							Open 130750	COOPC345 345 147833 MARCY T1 345 1					0.43311	-0.13551	-740.0	-927.6
			19324	1427.3	7178.6		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1425.5	-1725.0	-0.20985		-0.17197	-1241.5	-1486.9
							C:125000	HURLEY 3 34								
							Open 125000	HURLEY 3 345 125002 ROSETON 345 1					-0.27917	0.13569	659.1	852.8
			19401	1494.6	7246		L:130750	COOPC345 345 146754 MDTN TAP 345 1		1349.4	1793.0	0.29678		0.18761	872.9	1153.3
							C:125001	ROCK TAV 34								
							Open 125001	ROCK TAV 345 130750 COOPC345 345 2					-0.64201	-0.17006	-742.3	-996.5
			19432	1515.9	7267.3		L:146758	CHESTER 138 146773 SGRLF138 138 1		225.0	317.0	0.06069		0.03422	139.9	191.8
							C:125001	ROCK TAV 34								
							Open 125001	ROCK TAV 345 146754 MDTN TAP 345 1					-0.19956	-0.13269	-426.4	-627.6
			NA	1516.2	7267.6	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14079		0.00000	452.2	452.2
							C:SIN:1201									
							Open 126263	BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.13991	785.6	573.5
							Open 126263	BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.13991	785.6	573.5
							Open 126263	BUCHANAN S 345 126290 LADENTWN 345 1					-0.69167	0.23158	39.8	391.0
							Open 126263	BUCHANAN S 345 147832 IP3 345 345 1		NA						
							Open 147798	IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
							Open 147798	IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
							Remove unit 1	from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			NA	1516.2	7267.6	R	L: Interface	53 PJME-NYE		1000.5	787.0	-0.14079		0.00000	452.2	452.2
							C:SIN:1301									
							Open 126263	BUCHANAN S 345 126291 MILLWOOD 345 1					-0.06930	-0.13991	785.6	573.5
							Open 126263	BUCHANAN S 345 126291 MILLWOOD 345 2					-0.06930	-0.13991	785.6	573.5
							Open 126263	BUCHANAN S 345 126290 LADENTWN 345 1					-0.69167	0.23158	39.8	391.0
							Open 126263	BUCHANAN S 345 147832 IP3 345 345 1		NA						



From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
		NA		1516.2	7267.6	R	L: Interface 54 NVE-PJME			-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2
							C:SIN:1301			669						
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.06930	-0.13991	785.6	573.5
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.06930	-0.13991	785.6	573.5
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.69167	0.23158	39.8	391.0
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
		NA		1516.2	7267.6	R	L: Interface 54 NVE-PJME			-1000.5	-787.0	0.14079		0.00000	-452.2	-452.2
							C:SIN:1201			668						
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.06930	-0.13991	785.6	573.5
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.06930	-0.13991	785.6	573.5
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.69167	0.23158	39.8	391.0
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
		19445		1523.4	7274.8		L: Interface 14 Leeds-FV			2813.7	3450.0	0.41765		0.35267	2523.0	3060.3
							C:130750 COOPC345 3			192						
							Open 130750 COOPC345 345 130753 FRASR345 345 1						-0.29251	-0.22216	-993.8	-1332.2
		19448		1526.3	7277.7		L:130817 JENN 115 115 130819 KATEL115 115 1			-104.8	-159.0	-0.03551		-0.01769	-69.4	-96.4
							C:130753 FRASR345 3			200						
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.06258	-0.28478	-566.1	-1000.8
		19475		1641	7392.3		L: Interface 32 F-To-G			3715.6	4643.0	0.56513				
							Base Case									
		19488		1678.2	7429.5		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1383.2	-1725.0	-0.20365		-0.17197	-1241.5	-1530.1
							C:130750 COOPC345 3			192						
							Open 130750 COOPC345 345 130753 FRASR345 345 1						0.14263	-0.22216	-993.8	-1366.6
		19493		1728.9	7480.3		L:130750 COOPC345 345 147833 MARCY T1 345 1			-1007.4	-1345.0	-0.19527		-0.13551	-740.0	-974.3
							C:130750 COOPC345 3			192						
							Open 130750 COOPC345 345 130753 FRASR345 345 1						0.26903	-0.22216	-993.8	-1377.9
		19494		1730.7	7482		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1			-553.8	-707.0	-0.08853		-0.05492	-445.8	-540.8
							C:125001 ROCK TAV 3			9						
		19495		1746.7	7498.1		L:125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.25331	-0.13269	-426.4	-656.1
							Open 125001 ROCK TAV 345 130750 COOPC345 345 2			-1290.2	-1793.0	-0.28783		-0.17006	-742.3	-1039.3
							C:130750 COOPC345 3			195						
							Open 130750 COOPC345 345 146754 MDTN TAP 345 1						-0.62777	0.18761	872.9	1200.6
		19498		1754.7	7506.1		L:135859 LAPPINS1 115 135866 NLEROYTA 115 1			98.8	173.0	0.04231		0.02843	77.9	127.8
							C:147834 NIAG 345 3			226						
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.04986	0.27848	418.2	906.8
		19499		1775.3	7526.7		L:131018 LOUNS115 115 131850 CNYOG115 115 1			44.9	143.0	0.05524		0.03549	17.2	80.2
							C:130755 OAKDL345 3			206						
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.10626	-0.18586	-261.1	-591.1
		19500		1809.5	7560.8		L:130817 JENN 115 115 130851 SIDNT115 115 1			51.5	120.0	0.03787		0.02109	18.1	56.3
							C:130753 FRASR345 3			200						
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.05892	-0.28478	-566.1	-1081.4
		19501		1810.5	7561.9		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-43.0	-143.0	-0.05524		-0.03549	-15.2	-79.5
							C:130755 OAKDL345 3			206						
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.10626	-0.18586	-261.1	-597.6
		NA		1813.2	7564.5	R	L: Interface 23 QFW			893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1			776						
							Open 130754 KINTI345 345 130873 KINTIG24 24.0 1						0.00000	-0.00503	-288.3	-297.4
							Open 130754 KINTI345 345 130873 KINTIG24 24.0 2						0.35118	-0.01007	-577.4	-595.7
		19502		1813.2	7564.5		L: Interface 23 QFW			893.1	0.0	-0.49258		-0.48904	1095.9	209.2
							C:GEN:KINTIGH-New1			776						

From	To	Transfer Level	N	FCITC	Interface-1	PLSg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130754 KINTI345	345 130873 KINTIG24 24.0 1				0.00000	-0.00503	-288.3	-297.4
								Open 130754 KINTI345	345 130873 KINTIG24 24.0 2				0.35118	-0.01007	-577.4	-595.7
			19503	1819	7570.4		L:130757	WATRC345 345 200769 HOMER CY 345 1		-547.8	-755.0	-0.11389				
								Base Case								
			19504	1819	7570.4		L: Interface	47 C-PJMWest		-547.8	-755.0	-0.11389				
								Base Case								
			19505	1819	7570.4		L: Interface	48 PJMWest-C		547.8	755.0	0.11389				
								Base Case								
			19506	1819	7570.4		L: Interface	60 C2PJMC		-547.8	-755.0	-0.11389				
								Base Case								
			19507	1819	7570.4		L: Interface	61 PJMC2C		547.8	755.0	0.11389				
								Base Case								
			19512	1850.1	7601.5		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		92.6	159.0	0.03591		0.02407	74.8	119.3
								C:147834 NIAG 345 34	226							
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				0.04252	0.27848	418.2	933.4
			NA	1862.3	7613.7	R	L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			19513	1862.3	7613.7		L: Interface	23 QFW		910.7	0.0	-0.48904		-0.48904	1095.9	185.2
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			19514	1866	7617.3		L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				-0.25140	0.00782	624.3	638.9
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				-0.25140	0.00680	543.3	556.0
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	-2.9
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			NA	1866	7617.3	R	L: Interface	23 QFW		919.4	0.0	-0.49272		-0.48904	1095.9	183.4
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765 765 1	NA						
								Open 147828 MASS 765	765 180819 CHA-NY 765 1	NA						
								Open 147827 MARCY765	765 147833 MARCY T1 345 1				-0.25140	0.00782	624.3	638.9
								Open 147827 MARCY765	765 147833 MARCY T1 345 2				-0.25140	0.00680	543.3	556.0
								Open 156 MCY765SW	0.0 147827 MARCY765 765 1	NA						
								Open 147838 MASS230B	230 147839 MOSES E 230 1				0.00000	-0.00731	10.7	-2.9
								Open 147828 MASS 765	765 147838 MASS230B 230 1	NA						
								Open 147837 MASS230A	230 147839 MOSES E 230 1				-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A 230 1	NA						
								Open 158 MS765SW2	0.0 147828 MASS 765 765 1	NA						
								Open 157 MS765SW1	0.0 147828 MASS 765 765 1	NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			19515	1868.3	7619.7		L:125001	ROCK TAV 345 130750 COOPC345 345 2		-1261.0	-1793.0	-0.28477		-0.17006	-742.3	-1060.0
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345	345 146754 MDTN TAP 345 1				-0.55571	0.18761	872.9	1223.4
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				0.07882	-0.13269	-426.4	-674.3

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			19516	1902.5	7653.9		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1353.5	-1725.0	-0.19525		-0.18071	-1281.5	-1625.3
								C:SER:CMT34&MTR341								
								Open 130750 COOPC345	345 146754 MDTN TAP 345 1				-0.09359	0.18761	872.9	1229.8
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				-0.02274	-0.13269	-426.4	-678.9
			19517	1912.8	7664.1		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1354.0	-1725.0	-0.19397		-0.18071	-1281.5	-1627.2
								C:130750 COOPC345	345 146754 MDTN TAP 345 1							
								Open 130750 COOPC345	345 147833 MARCY T1 345 1				0.09788	-0.13551	-740.0	-999.2
			19520	1924.2	7675.5		L:	Interface 23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9
								C:GEN:GINNA1								
								Remove unit 1 from bus 149140 GINNA 19	19.0 605.0 MW dispatch							
		NA		1924.2	7675.5	R	L:	Interface 23 QFW		941.0	0.0	-0.48904		-0.48904	1095.9	154.9
								C:GEN:GINNA1								
								Remove unit 1 from bus 149140 GINNA 19	19.0 605.0 MW dispatch							
			19521	1940.2	7691.5		L:135872	SOUR-111 115 135873 SWDN-111 115 1		89.3	159.0	0.03591		0.02407	71.5	118.2
								C:147834 NIAG 345	345 149000 ROCH 345 345 1							
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				0.04252	0.27848	418.2	958.5
			19522	1954.6	7706*		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1345.1	-1725.0	-0.19436		-0.18071	-1281.5	-1634.8
								C:130750 COOPC345	345 146754 MDTN TAP 345 1							
								Open 130750 COOPC345	345 146754 MDTN TAP 345 1				-0.07280	0.18761	872.9	1239.6
			19523	1977.2	7728.6		L:	Interface 23 QFW		966.9	0.0	-0.48904		-0.48904	1095.9	129.0
								C:GEN:SEABROOK1								
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
		NA		1977.2	7728.6	R	L:	Interface 23 QFW		966.9	0.0	-0.48904		-0.48904	1095.9	129.0
								C:GEN:SEAB&OMS1								
								Open 100508 SANDB115	115 100509 SB RCTOR 115 2				0.00003	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			19528	1988.6	7740		L:130819	KATEL115 115 130838 OAKDL115 115 1		-121.4	-192.0	-0.03551		-0.01769	-86.0	-121.1
								C:130753 FRASR345	345 130755 OAKDL345 345 1							
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				0.06258	-0.28478	-566.1	-1132.4
			19529	1993.1	7744.5		L:130753	FRASR345 345 130755 OAKDL345 345 1		-762.3	-1380.0	-0.30993		-0.28478	-566.1	-1133.7
								C:130753 FRASR345	345 137200 EDIC 345 1							
								Open 130753 FRASR345	345 137200 EDIC 345 1				0.27552	-0.09129	-712.0	-893.9
			19533	2016.6	7768		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		99.5	173.0	0.03645		0.02843	77.9	135.2
								C:130754 KINTI345	345 149000 ROCH 345 345 1							
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				0.04136	0.19408	521.8	913.1
		NA		2023.1	7774.5	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.0	240.0	-0.03903		-0.01988	162.2	122.0
								C:125021 DC CBLTP	115 125041 N.CHELSE 115 1							
								Open 125021 DC CBLTP	115 125041 N.CHELSE 115 1				0.92978	-0.02060	168.6	126.9
		NA		2028.7	7780	R	L:125015	AC CBLTP 115 125041 N.CHELSE 115 1		319.2	240.0	-0.03903		-0.01988	162.2	121.9
								C:125020 DANSKAMA	115 125021 DC CBLTP 115 1							
								Open 125020 DANSKAMA	115 125021 DC CBLTP 115 1				0.92978	-0.02060	168.8	127.0
			19544	2061.2	7812.5		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.24721		-0.17398	-860.4	-1219.0
								C:BUS:N.S._771								
								Open 137452 N.SCOT77	345 137453 N.SCOT99 345 1				0.60778	-0.04334	-242.4	-331.7
								Open 137452 N.SCOT77	345 137516 N.SCOT1 115 1				0.40442	0.00032	113.3	114.0
								Open 137200 EDIC	345 137452 N.SCOT77 345 1				-0.33527	0.17278	820.4	1176.6
								Open 137450 ALPS345	345 137452 N.SCOT77 345 1				-0.26700	-0.04086	-84.4	-168.7
								Open 137451 LEEDS 3	345 137452 N.SCOT77 345 1				0.20564	0.00000	0.0	0.0
			19545	2063.9	7815.3		L:	Interface 14 Leeds-PV		2663.5	3450.0	0.38105		0.35267	2523.0	3250.9
								C:SER:CMT34&MTR341								
								Open 130750 COOPC345	345 146754 MDTN TAP 345 1				0.18265	0.18761	872.9	1260.1
								Open 125001 ROCK TAV	345 146754 MDTN TAP 345 1				0.04437	-0.13269	-426.4	-700.3
			19549	2075.3	7826.6		L:	Interface 14 Leeds-PV		2664.4	3450.0	0.37856		0.35267	2523.0	3254.9
								C:130750 COOPC345	345 147833 MARCY T1 345 1							
								Open 130750 COOPC345	345 147833 MARCY T1 345 1				-0.19102	-0.13551	-740.0	-1021.2
			19550	2082.3	7833.6		L:130757	WATRC345 345 130768 WATRC230 230 1		459.8	600.0	0.06734		-0.07197	264.1	114.2
								C:130755 OAKDL345	345 130757 WATRC345 345 1							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.74954	-0.18586	-261.1	-648.1
			19551	2084.9	7836.3		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-83.3	-173.0	-0.04302		-0.02891	-62.1	-122.4

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.27848	418.2	998.8	
			19556	2113.3	7864.7		L:130750	COOPC345 345 130753 FRASR345 345 1		-1076.8	-1703.0	-0.29630		-0.22216	-993.8	-1463.3	
								C:130753 FRASR345 3	203								
								Open 130753 FRASR345 345 147831 GILB 345 345 1						-0.39407	0.18814	210.7	608.3
			19557	2116.4	7867.8		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		445.8	562.0	0.05492					
								Base Case									
			19558	2116.8	7868.1		L: Interface	14 Leeds-PV		2647.1	3450.0	0.37933		0.35267	2523.0	3269.6	
								C:130750 COOPC345 3	195								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.14209	0.18761	872.9	1270.0	
			NA	2125.7	7877.1	R	L: Interface	54 NYE-PJME		-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2	
								C:GEN:IND PT 3-New1	774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0	
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.60931	0.23158	-1041.8	-549.5	
			NA	2125.7	7877.1	R	L: Interface	53 PJME-NYE		1087.0	787.0	-0.14111		0.00000	452.2	452.2	
								C:GEN:IND PT 3-New1	774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0	
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.60931	0.23158	-1041.8	-549.5	
			NA	2126.8	7878.1	R	L: Interface	53 PJME-NYE		1085.6	787.0	-0.14041		0.00000	452.2	452.2	
								C:GEN:IND PT 2-New1	773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2	
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.62193	0.22576	-1018.5	-538.3	
			NA	2126.8	7878.1	R	L: Interface	54 NYE-PJME		-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2	
								C:GEN:IND PT 2-New1	773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2	
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					0.62193	0.22576	-1018.5	-538.3	
			19566	2128.9	7880.3		L:135452	LOCKPORT 115 135872 SOUR-111 115 1	93.2	159.0	0.03092		0.02407	74.8	126.0		
								C:130754 KINTI345 3	205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03527	0.19408	521.8	934.9	
			19573	2139.1	7890.4		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1	103.6	180.0	0.03571		0.02393	85.9	137.1		
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04231	0.27848	418.2	1013.9	
			19585	2171.2	7922.6		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1	553.8	746.0	0.08853		0.05492	445.8	565.0		
								C:125001 ROCK TAV 3	9								
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.25331	-0.13269	-426.4	-714.5	
			19586	2171.9	7923.3		L: Interface	14 Leeds-PV	2627.6	3450.0	0.37867		0.35267	2523.0	3289.0		
								C:SER:PV_LM_3981	598								
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					0.33670	0.07721	310.6	478.3	
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					-0.23705	0.00000	0.2	0.2	
			19587	2172	7923.3	*	L: Interface	14 Leeds-PV	2627.5	3450.0	0.37867		0.35267	2523.0	3289.0		
								C:103117 CTNY398 3	362								
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					0.33670	0.07721	310.4	478.1	
			19607	2205.9	7957.3		L:135850	SOUR-114 115 135861 MORTIMER 115 1	70.5	153.0	0.03738		0.02506	52.0	107.3		
								C:147834 NIAG 345 3	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04425	0.27848	418.2	1032.5	
			19690	2233.5	7984.9		L:135872	SOUR-111 115 135873 SWDN-111 115 1	89.9	159.0	0.03092		0.02407	71.5	125.3		
								C:130754 KINTI345 3	205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03527	0.19408	521.8	955.2	
			19691	2233.5	7984.9		L:126294	PLTVLLEY 345 137455 ATHENS 345 1	-1310.0	-1725.0	-0.18580		-0.17197	-1241.5	-1625.6		
								C:SER:CMT34&MTR341	594								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.08906	0.18761	872.9	1291.9	
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.02164	-0.13269	-426.4	-722.8	
			21081	2246	7997.3		L:126294	PLTVLLEY 345 137455 ATHENS 345 1	-1310.4	-1725.0	-0.18459		-0.17197	-1241.5	-1627.7		
								C:130750 COOPC345 3	196								
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					0.09314	-0.13551	-740.0	-1044.4	
			21170	2250.5	8001.9		L:130764	MEYER230 230 131122 WTHRS230 230 1	-242.2	-430.0	-0.08347						
								Base Case									
			21209	2254.7	8006.1		L:130836	N.WAV115 115 131018 LOUNGS115 115 1	48.5	173.0	0.05524		0.03549	20.7	100.7		
								C:130755 OAKDL345 3	206								

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21251	2259.1	8010.5		L:130750	Open 130755 OAKDL345 345 130757 WATRC345 345 1								
								COOPC345 345 130753 FRASR345 345 1		-1143.6	-1703.0	-0.24764	-0.10626	-0.18586	-261.1	-680.2
								C:137451 LEEDS 3 34	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.16356	-0.15578	-915.6	-1267.5
			21260	2262.2	8013.6		L:135452	LOCKPORT 115 135851 SHEL-113 115 1		97.8	180.0	0.03633		0.02435	79.8	134.9
								C:147834 NIAG 345 34	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04302	0.27848	418.2	1048.2
			21290	2276.5	8027.8		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00023	-0.00033	74.9	74.2
			21291	2276.5	8027.8		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1231.0	-1792.0	-0.24645		-0.18542	-917.3	-1339.4
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35320	0.17278	820.4	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					-0.00016	-0.00021	88.8	88.3
			21304	2287.1	8038.5		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1302.0	-1725.0	-0.18496		-0.17197	-1241.5	-1634.8
								C:130750 COOPC345 34	195							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.06928	0.18761	872.9	1301.9
			21305	2287.5	8038.9		L: Interface	59 MarcySouthS		1733.8	2552.0	0.35766				
								Base Case								
			21306	2287.9	8039.2		L:130815	HINMN115 115 135452 LOCKPORT 115 1		191.4	280.0	0.03872		0.02477	170.5	227.1
								C:147834 NIAG 345 34	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.05011	0.27848	418.2	1055.3
			21327	2317.9	8069.3		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:125002 ROSETON 34	10							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.04251	-0.01700	1505.3	1465.9
			21328	2317.9	8069.3		L:146758	CHESTER 138 146771 SHOEM138 138 1		-239.4	-317.0	-0.03349		-0.03422	-175.4	-254.7
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.04251	-0.01700	1505.3	1465.9
			21331	2322.8	8074.2		L:130794	DELHI115 115 130851 SIDNT115 115 1		-33.5	-120.0	-0.03724		-0.02058	-0.4	-48.2
								C:130753 FRASR345 34	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.05851	-0.28478	-566.1	-1227.6
			21336	2327.8	8079.1		L:130815	HINMN115 115 131611 HARIS115 115 1		-218.3	-306.0	-0.03766		-0.02411	-198.0	-254.1
								C:147834 NIAG 345 34	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04868	0.27848	418.2	1066.4
			21349	2342.6	8094 *		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1292.5	-1725.0	-0.18464		-0.17197	-1241.5	-1644.3
								C:SER:PV_LM_3981	598							
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					-0.16418	0.07721	310.6	491.5
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					0.11559	0.00000	0.2	0.2
			21356	2347.9	8099.3		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1185.3	-1724.0	-0.22943		-0.17495	-865.1	-1275.8
								C:137451 LEEDS 3 34	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34978	-0.15578	-915.6	-1281.4
			21381	2376.2	8127.5		L:130770	SHLDN230 230 131122 WTHRS230 230 1		231.9	430.0	0.08335				
								Base Case								
			21383	2377.5	8128.8		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1180.8	-1724.0	-0.22849		-0.17398	-860.4	-1274.1
								C:137451 LEEDS 3 34	7							
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34988	-0.15578	-915.6	-1286.0
			21388	2379.4	8130.7		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.1	-540.0	-0.09831		-0.08347	-242.2	-440.8
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11956	-0.11389	-547.8	-818.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.03820	-0.03203	40.8	-35.4
			21409	2399.9	8151.3		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-84.0	-173.0	-0.03707		-0.02891	-62.1	-131.5
								C:130754 KINTI345 34	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04206	0.19408	521.8	987.5
			21416	2405	8156.4		L:130764	MEYER230 230 131122 WTHRS230 230 1		-306.9	-540.0	-0.09693		-0.08347	-242.2	-442.9
								C:130757 WATRC345 34	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11817	-0.11389	-547.8	-821.7

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21419	2410.4	8161.7		L:137453	N.SCOT99 345 147833 MARCY T1 345 1		-1201.0	-1792.0	-0.24517		-0.18542	-917.3	-1364.2
								C:137200 EDIC 34	946							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.34584	0.17278	820.4	1236.9
			21428	2419.1	8170.4		L:130753	FRASR345 345 130755 OAKDL345 345 1		-566.1	-1255.0	-0.28478				
								Base Case								
			21445	2428.6	8179.9		L:130764	MEYER230 230 131122 WTHRS230 230 1		-304.7	-540.0	-0.09690		-0.08347	-242.2	-444.9
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11759	-0.11389	-547.8	-824.4
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.05270	0.00066	-35.9	-34.2
			21495	2441.4	8192.8		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00024	-0.00033	74.9	74.1
			21496	2441.4	8192.8		L:137200	EDIC 345 137452 N.SCOT77 345 1		1150.6	1724.0	0.23488		0.17278	820.4	1242.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.33492	-0.18542	-917.3	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00016	-0.00021	88.8	88.3
			22758	2455.9	8207.2		L:130753	FRASR345 345 130755 OAKDL345 345 1		-645.1	-1380.0	-0.29924		-0.28478	-566.1	-1265.5
								C:130750 COOPC345 34	196							
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					0.10675	-0.13551	-740.0	-1072.8
			22953	2464.7	8216.1		L:135452	LOCKPORT 115 135876 TELRDTP1 115 1		104.2	180.0	0.03074		0.02393	85.9	144.9
								C:130754 KINTI345 34	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03510	0.19408	521.8	1000.1
			23032	2486.2	8237.5		L:130770	SHLDN230 230 131122 WTHRS230 230 1		295.9	540.0	0.09819		0.08335	231.9	439.2
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11956	-0.11389	-547.8	-831.0
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.03820	-0.03203	40.8	-38.8
			23034	2486.7	8238		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1801	673							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00061	-0.00021	88.8	88.3
			23035	2486.7	8238		L:130753	FRASR345 345 130755 OAKDL345 345 1		-638.3	-1380.0	-0.29825		-0.28478	-566.1	-1274.3
								C:SIN:1701	672							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.07267	-0.18542	-917.3	-1378.4
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04710	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00092	-0.00033	74.9	74.1
			23059	2503.1	8254.4		L:130753	FRASR345 345 130755 OAKDL345 345 1		-667.2	-1380.0	-0.28478		-0.28478	-566.1	-1278.9
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			23065	2507.5	8258.8		L:130767	STOLE230 230 130770 SHLDN230 230 1		221.3	430.0	0.08323				
								Base Case								
			23071	2513.4	8264.7		L:130770	SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09681		0.08335	231.9	441.4
								C:130757 WATRC345 34	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11817	-0.11389	-547.8	-834.1
			23072	2513.4	8264.8		L:130753	FRASR345 345 130755 OAKDL345 345 1		-631.2	-1380.0	-0.29793		-0.28478	-566.1	-1281.9
								C:137453 N.SCOT99 34	12							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.07093	-0.18542	-917.3	-1383.3
			23094	2528.5	8279.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.17278	820.4	1257.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00061	-0.00021	88.8	88.3
			23095	2528.5	8279.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.29692		-0.28478	-566.1	-1286.2
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.17278	820.4	1257.3

From	To	Transfer Level	N	FCITC	Interface-1	PLSg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137228 INGMS-CD	115 137886 INGHAM-E 115 1				-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1	115 137246 VALLEY 115 1				0.00092	-0.00033	74.9	74.1
			23097	2529.8	8281.1		L:131018	LOUNSI15 115 131850	CNYOG115 115 1	14.5	143.0	0.05078		0.03549	17.2	107.0
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.05666	-0.11389	-547.8	-835.9
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.12284	-0.07197	264.1	82.0
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.05531	0.00000	22.7	22.7
			23100	2531.9	8283.3		L:146758	CHESTER 138 146771	SHOEM138 138 1	-175.4	-262.0	-0.03422				
								Base Case								
			23101	2532.1	8283.5		L:135851	SHEL-113 115 135874	SWDN-113 115 1	88.0	180.0	0.03634		0.02436	70.0	131.7
								C:147834 NIAG 345 3								
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				0.04303	0.27848	418.2	1123.3
			23105	2535.2	8286.6		L:146771	SHOEM138 138 146772	SHOEMTAP 138 1	-445.8	-585.0	-0.05492				
								Base Case								
			23107	2537	8288.3		L:130770	SHLDN230 230 131122	WTHRS230 230 1	294.5	540.0	0.09678		0.08335	231.9	443.4
								C:SER:HC-WC_30&W-F_1711								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.11759	-0.11389	-547.8	-836.8
								Open 135277 FALCONER	115 200579 WARREN 115 1				0.05270	0.00066	-35.9	-34.2
			23109	2538.2	8289.5		L:130753	FRASR345 345 130755	OAKDL345 345 1	-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
								C:GEN:SEAB&OMS1								
								Open 100508 SANDB115	115 100509 SB RCTOR 115 2				0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869	SBRK G1 25.0 1318.0 MW dispatch							
			23110	2538.2	8289.5 *		L:130753	FRASR345 345 130755	OAKDL345 345 1	-657.2	-1380.0	-0.28478		-0.28478	-566.1	-1288.9
								C:GEN:SEABROOK1								
								Remove unit 1 from bus 102869	SBRK G1 25.0 1318.0 MW dispatch							
			23112	2542.1	8293.5		L:135850	SOUR-114 115 135861	MORTIMER 115 1	71.2	153.0	0.03218		0.02506	52.0	115.7
								C:130754 KINTI345 3								
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				0.03670	0.19408	521.8	1015.1
			23133	2553.8	8305.1		L:130807	GOUDY115 115 130848	S.OWE115 115 1	-1.9	-143.0	-0.05524		-0.03549	25.8	-64.8
								C:130755 OAKDL345 3								
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.10626	-0.18586	-261.1	-735.8
			23135	2554.7	8306.1		L:135850	SOUR-114 115 135876	TELRDTP1 115 1	-84.5	-180.0	-0.03738		-0.02506	-66.0	-130.0
								C:147834 NIAG 345 3								
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				-0.04425	0.27848	418.2	1129.6
			23137	2555	8306.3		L:131018	LOUNSI15 115 131850	CNYOG115 115 1	-13.2	143.0	0.06113		0.03549	17.2	107.9
								C:BUS:WATERCURE_2301								
								Open 130768 WATRC230	230 130772 SHRED230 230 1				0.24197	0.05180	73.0	205.3
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.18210	-0.07197	264.1	80.2
								Open 130763 HILSD230	230 130768 WATRC230 230 1				0.12851	0.00000	0.5	0.5
			23141	2558.3	8309.7		L:130750	COOPC345 345 130753	FRASR345 345 1	-1092.1	-1703.0	-0.23878		-0.22216	-993.8	-1562.2
								C:125000 HURLEY 3 3								
								Open 125000 HURLEY 3	345 137451 LEEDS 3 345 1				0.10935	-0.15203	-899.1	-1288.1
			23143	2562.4	8313.8		L:135858	GOLAH115 115 135862	MUMFORD1 115 1	-62.8	-173.0	-0.04302		-0.02891	-41.6	-115.6
								C:147834 NIAG 345 3								
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				-0.05070	0.27848	418.2	1131.8
			23151	2568	8319.4		L:130848	S.OWE115 115 131850	CNYOG115 115 1	-12.6	-143.0	-0.05078		-0.03549	-15.2	-106.4
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.05666	-0.11389	-547.8	-840.3
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.12284	-0.07197	264.1	79.3
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.05531	0.00000	22.7	22.7
			23156	2572.4	8323.7		L:130750	COOPC345 345 130753	FRASR345 345 1	-1094.9	-1703.0	-0.23641		-0.22216	-993.8	-1565.3
								C:126294 PLTVLLEY 3								
								Open 126294 PLTVLLEY	345 137451 LEEDS 3 345 2				0.07887	-0.18071	-1281.5	-1746.4
			23159	2573.2	8324.5		L: Interface	54 NYE-PJME		-598.1	-787.0	-0.07341		0.00000	-452.2	-452.2
								C:130753 FRASR345 3								
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				0.25776	-0.28478	-566.1	-1298.9
			23160	2573.2	8324.5		L: Interface	53 PJME-NYE		598.1	787.0	0.07341		0.00000	452.2	452.2
								C:130753 FRASR345 3								
								Open 130753 FRASR345	345 130755 OAKDL345 345 1				-0.25776	-0.28478	-566.1	-1298.9





From	To	Transfer Level	N	FCITC	Interface-1	PLSg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24807	2666.1	8417.4		L: Interface	53 PJME-NYE		622.4	787.0	0.06174		0.00000	452.2	452.2
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				-0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.43803	0.00000	22.7	22.7
			24808	2666.1	8417.4		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.06174		0.00000	-452.2	-452.2
								C:BUS:WATERCURE_3451								
								Open 130757 WATRC345	345 200769 HOMER CY 345 1				0.42109	-0.11389	-547.8	-851.5
								Open 130757 WATRC345	345 130768 WATRC230 230 1				0.19143	-0.07197	264.1	72.2
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				0.43803	0.00000	22.7	22.7
			24810	2670	8421.4		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		27.5	143.0	0.04327		0.03549	17.2	111.9
								C:SER:OAKDALE_WATRC2301								
								Open 130768 WATRC230	230 130772 SHRED230 230 1				0.15025	0.05180	73.0	211.3
								Open 130765 OAKDL230	230 130772 SHRED230 230 1	NA						
								Open 130765 OAKDL230	230 130838 OAKDL115 115 1				-0.10159	0.00000	6.8	6.8
			24815	2671.7	8423.1		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		17.2	112.0	0.03549				
								Base Case								
			24825	2673.9	8425.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		87.8	173.0	0.03185		0.02843	77.9	153.9
								C:130764 MEYER230	2							
								Open 130764 MEYER230	230 131122 WTHRS230 230 1				-0.04101	-0.08347	-242.2	-465.3
			24827	2675.7	8427.1		L:130815	HINMN115 115 135452 LOCKPORT 115 1		192.1	280.0	0.03284		0.02477	170.5	236.7
								C:130754 KINTI345	3							
								Open 130754 KINTI345	345 149000 ROCH 345 345 1				0.04157	0.19408	521.8	1041.1
			24830	2676.8	8428.1		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		27.2	143.0	0.04327		0.03549	17.2	112.2
								C:130765 OAKDL230	2							
								Open 130765 OAKDL230	230 130772 SHRED230 230 1				-0.15025	-0.05180	-66.5	-205.1
			24832	2677.6	8429		L:131018	LOUNSI15 115 131850 CNYOG115 115 1		27.1	143.0	0.04327		0.03549	17.2	112.2
								C:130765 OAKDL230	2							
								Open 130765 OAKDL230	230 130838 OAKDL115 115 1				0.15025	0.05180	66.2	204.9
			24842	2685.7	8437.1		L:130815	HINMN115 115 135452 LOCKPORT 115 1		195.3	280.0	0.03152		0.02477	170.5	237.0
								C:130766 ROBIN230	2							
								Open 130766 ROBIN230	230 130767 STOLE230 230 1				0.26884	0.02512	92.6	160.0
			24847	2687.4	8438.8		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		87.4	173.0	0.03184		0.02843	77.9	154.3
								C:130770 SHLDN230	2							
								Open 130770 SHLDN230	230 131122 WTHRS230 230 1				0.04101	0.08335	231.9	455.9
			24851	2691.1	8442.4		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-45.3	-143.0	-0.03630		-0.03549	-15.2	-110.7
								C:130755 OAKDL345	3							
								Open 130755 OAKDL345	345 131128 LAPEER 345 1				0.05020	-0.01619	-599.0	-642.6
			24856	2694.6	8445.9		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		75.9	173.0	0.03604		0.02843	77.9	154.5
								C:130754 KINTI345	3							
								Open 130754 KINTI345	345 147834 NIAG 345 345 1				-0.04136	-0.18401	48.6	-447.2
			24858	2696	8447.3		L:130770	SHLDN230 230 131122 WTHRS230 230 1		261.8	540.0	0.10321		0.08335	231.9	456.7
								C:147834 NIAG 345	3							
								Open 147834 NIAG 345	345 149000 ROCH 345 345 1				0.07130	0.27848	418.2	1168.9
			24861	2699.1	8450.4		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-26.2	-143.0	-0.04327		-0.03549	-15.2	-111.0
								C:130768 WATRC230	2							
								Open 130768 WATRC230	230 130772 SHRED230 230 1				-0.15025	0.05180	73.0	212.8
			24868	2701.6	8452.9		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		87.0	173.0	0.03184		0.02843	77.9	154.7
								C:130767 STOLE230	2							
								Open 130767 STOLE230	230 130770 SHLDN230 230 1				0.04101	0.08323	221.3	446.2
			24881	2704.7	8456.1		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-860.4	-1331.0	-0.17398				
								Base Case								
			24895	2715	8466.3		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.5	-143.0	-0.04327		-0.03549	-15.2	-111.6
								C:SER:OAKDALE_WATRC2301								
								Open 130768 WATRC230	230 130772 SHRED230 230 1				-0.15025	0.05180	73.0	213.6
								Open 130765 OAKDL230	230 130772 SHRED230 230 1	NA						
								Open 130765 OAKDL230	230 130838 OAKDL115 115 1				0.10159	0.00000	6.8	6.8
			24904	2721.7	8473		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.8
								C:130765 OAKDL230	2							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24906	2722.2	8473.5		L:130815	Open 130765 OAKDL230 230 130772 SHRED230 230 1					0.15025	-0.05180	-66.5	-207.5
								HINMN115 115 131611 HARIS115 115 1		-219.0	-306.0	-0.03194		-0.02411	-198.0	-263.6
								C:130754 KINTI345 34	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04038	0.19408	521.8	1050.1
			24907	2722.3	8473.7		L:131018	LOUNSI115 115 131850 CNYOG115 115 1		-20.9	143.0	0.06019		0.03549	17.2	113.8
								C:130763 HILSD230 2	219							
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.19958	0.12377	-190.6	146.3
			24908	2722.6	8473.9		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-25.2	-143.0	-0.04327		-0.03549	-15.2	-111.9
								C:130765 OAKDL230 2	223							
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.15025	0.05180	66.2	207.3
			24909	2723.6	8475		L:130750	COOPC345 345 130753 FRASR345 345 1		-1060.5	-1703.0	-0.23589		-0.22216	-993.8	-1598.9
								C:125000 HURLEY 3 34	1							
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					-0.10122	0.13569	659.1	1028.7
			24917	2726.5	8477.8		L:130848	S.OWE115 115 131850 CNYOG115 115 1		-15.2	-112.0	-0.03549				
								Base Case								
			24926	2734.1	8485.5		L:130815	HINMN115 115 131611 HARIS115 115 1		-222.2	-306.0	-0.03067		-0.02411	-198.0	-263.9
								C:130766 ROBIN230 2	224							
								Open 130766 ROBIN230 230 130767 STOLE230 230 1					-0.26115	0.02512	92.6	161.3
			24927	2735.4	8486.8		L:130753	FRASR345 345 137200 EDIC 345 1		-888.0	-1380.0	-0.17986		-0.09129	-712.0	-961.7
								C:130753 FRASR345 34	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.31098	-0.28478	-566.1	-1345.1
			24932	2738.7	8490		L:137451	LEEDS 3 345 147831 GILB 345 345 1		-1313.8	-1912.0	-0.21844		-0.15578	-915.6	-1342.2
								C:BUS:N.S..991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					0.62610	-0.03236	-307.4	-396.0
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.16119	-0.18542	-917.3	-1425.1
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					0.03268	0.00046	120.3	121.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.07200	-0.17398	-860.4	-1336.9
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.10447	0.00000	1.6	1.6
			24947	2754.6	8506		L:130848	S.OWE115 115 131850 CNYOG115 115 1		22.8	-143.0	-0.06019		-0.03549	-15.2	-113.0
								C:130763 HILSD230 2	219							
								Open 130763 HILSD230 230 130768 WATRC230 230 1					-0.19958	0.12377	-190.6	150.3
			24962	2761.1	8512.5		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01700	1505.3	1458.4
			24963	2761.1	8512.5		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21598		0.22243	1116.0	1730.1
								C:125002 ROSETON 34	10							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01700	1505.3	1458.4
			25029	2793.9	8545.3		L:130815	HINMN115 115 135452 LOCKPORT 115 1		191.0	280.0	0.03185		0.02477	170.5	239.7
								C:130764 MEYER230 2	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					-0.08488	-0.08347	-242.2	-475.4
			25088	2802.4	8553.7		L:130767	STOLE230 230 130770 SHLDN230 230 1		251.1	540.0	0.10308		0.08323	221.3	454.5
								C:147834 NIAG 345 34	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.07130	0.27848	418.2	1198.6
			25092	2803	8554.3		L:130750	COOPC345 345 130753 FRASR345 345 1		-1047.7	-1703.0	-0.23379		-0.22216	-993.8	-1616.5
								C:BUS:N.S..771	615							
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.03869	-0.04334	-242.4	-363.9
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.01601	0.00032	113.3	114.2
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.05550	0.17278	820.4	1304.7
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.00921	-0.04086	-84.4	-199.0
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01098	0.00000	0.0	0.0
			25106	2803.8	8555.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		85.4	173.0	0.03126		0.02843	77.9	157.6
								C:135850 SOUR-114 1	673							
								Open 135850 SOUR-114 115 135876 TELRDP1 115 1					-0.11295	-0.02506	-66.0	-136.3
			25206	2808	8559.4		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		85.9	173.0	0.03101		0.02843	77.9	157.7
								C:135452 LOCKPORT 1	599							
								Open 135452 LOCKPORT 115 135872 SOUR-111 115 1					0.10725	0.02407	74.8	142.4
			26113	2811.9	8563.3		L:135452	LOCKPORT 115 135872 SOUR-111 115 1		73.1	159.0	0.03056		0.02407	74.8	142.5
								C:130754 KINTI345 34	204							
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.03527	-0.18401	48.6	-468.8

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			26120	2812	8563.3		L:130764	MEYER230 230 131122 WTHRS230 230 1		-273.0	-540.0	-0.09495		-0.08347	-242.2	-476.9
								C:130754 KINTI345 3	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.05915	0.19408	521.8	1067.5
			26232	2812.5	8563.8		L: Interface	59 MarcySouthS		1935.4	3048.0	0.39561		0.35766	1733.8	2739.7
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.09642	-0.03236	-307.4	-398.4
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.15078	-0.18542	-917.3	-1438.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00329	0.00046	120.3	121.6
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					-0.03947	-0.17398	-860.4	-1349.7
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.02283	0.00000	1.6	1.6
			26428	2815	8566.4		L:130764	MEYER230 230 131122 WTHRS230 230 1		-307.8	-540.0	-0.08250		-0.08347	-242.2	-477.1
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.06554	-0.11389	-547.8	-868.4
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.11714	-0.07197	264.1	61.5
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.05466	0.00000	22.7	22.7
			26508	2819	8570.3		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		84.3	173.0	0.03148		0.02843	77.9	158.0
								C:135850 SOUR-114 1	672							
								Open 135850 SOUR-114 115 135861 MORTIMER 115 1					0.12194	0.02506	52.0	122.7
			26512	2819.2	8570.6	*	L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		85.6	173.0	0.03101		0.02843	77.9	158.0
								C:135872 SOUR-111 1	706							
								Open 135872 SOUR-111 115 135873 SWDN-111 115 1					0.10725	0.02407	71.5	139.4
			26532	2822	8573.4		L:130815	HINMN115 115 135452 LOCKPORT 115 1		190.1	280.0	0.03184		0.02477	170.5	240.3
								C:130770 SHLDN230 2	228							
								Open 130770 SHLDN230 230 131122 WTHRS230 230 1					0.08488	0.08335	231.9	467.2
			26608	2833.2	8584.5		L: Interface	32 F-To-G		4206.2	6118.0	0.67479		0.56513	3715.6	5316.7
								C:130750 COOPC345 3	192							
								Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.49363	-0.22216	-993.8	-1623.2
			26652	2841.6	8593		L:130815	HINMN115 115 131611 HARS115 115 1		-217.9	-306.0	-0.03099		-0.02411	-198.0	-266.5
								C:130764 MEYER230 2	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					0.08245	-0.08347	-242.2	-479.3
			26716	2850.3	8601.7		L:136150	CLAY 345 137200 EDIC 345 2		770.0	1434.0	0.23297		0.17531	579.4	1079.1
								C:136150 CLAY 3	715							
								Open 136150 CLAY 345 137200 EDIC 345 1					0.33000	0.17473	577.6	1075.6
			26727	2851.3	8602.7		L:130815	HINMN115 115 135452 LOCKPORT 115 1		189.2	280.0	0.03183		0.02477	170.5	241.1
								C:130767 STOLE230 2	226							
								Open 130767 STOLE230 230 130770 SHLDN230 230 1					0.08488	0.08323	221.3	458.6
			28167	2863.8	8615.2		L:136150	CLAY 345 137200 EDIC 345 1		768.3	1434.0	0.23245		0.17473	577.6	1077.9
								C:136150 CLAY 3	716							
								Open 136150 CLAY 345 137200 EDIC 345 2					0.32926	0.17531	579.4	1081.4
			28220	2869.7	8621.1		L:130815	HINMN115 115 131611 HARS115 115 1		-217.1	-306.0	-0.03098		-0.02411	-198.0	-267.2
								C:130770 SHLDN230 2	228							
								Open 130770 SHLDN230 230 131122 WTHRS230 230 1					-0.08245	0.08335	231.9	471.1
			28224	2870.2	8621.5	*	L:130750	COOPC345 345 130753 FRASR345 345 1		-1027.3	-1703.0	-0.23543		-0.22216	-993.8	-1631.4
								C:137451 LEEDS 3 3	6							
								Open 137451 LEEDS 3 345 137455 ATHENS 345 1					-0.07718	0.17197	433.7	927.3
			28256	2884	8635.4		L:130764	MEYER230 230 131122 WTHRS230 230 1		-256.6	-540.0	-0.09828		-0.08347	-242.2	-482.9
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					0.11660	-0.12699	-123.7	-489.9
			28287	2899	8650.3		L:130815	HINMN115 115 131611 HARS115 115 1		-216.2	-306.0	-0.03097		-0.02411	-198.0	-267.9
								C:130767 STOLE230 2	226							
								Open 130767 STOLE230 230 130770 SHLDN230 230 1					-0.08245	0.08323	221.3	462.6
			28292	2902.5	8653.8		L: Interface	59 MarcySouthS		1810.7	3048.0	0.42629		0.35766	1733.8	2771.9
								C:130753 FRASR345 3	203							
								Open 130753 FRASR345 345 147831 GILB 345 345 1					0.36478	0.18814	210.7	756.8
			28314	2917.8	8669.1		L:135872	SOUR-111 115 135873 SWDN-111 115 1		69.8	159.0	0.03056		0.02407	71.5	141.8
								C:130754 KINTI345 3	204							
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.03527	-0.18401	48.6	-488.3
			28327	2921.1	8672.5		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.6	180.0	0.03128		0.02436	70.0	141.1
								C:130754 KINTI345 3	205							



From	To	Transfer Level	N	FCITC	Interface-1	Flg	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 100508 SANDB115	115 100509 SB RCTOR 115 2				-0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28386	2980.8	8732.2		L: Interface	35 NY-PJM		-2399.1	-3114.0	-0.23984		-0.23984	-1506.8	-2221.7
								C:SIN:2501								
								Open 100508 SANDB115	115 100509 SB RCTOR 115 2				0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			28390	2985	8736.4		L:146769	RAMP138 138 146773 SGRLF138 138 2		-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:SIN:4401								
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.14310	0.22243	1116.0	1779.9
			28391	2985	8736.4		L:146769	RAMP138 138 146773 SGRLF138 138 2		-151.4	-351.0	-0.06688		-0.03505	8.3	-96.3
								C:125001 ROCK TAV	34							
								Open 125001 ROCK TAV	345 126297 RAMAPO 345 1				-0.14310	0.22243	1116.0	1779.9
			28392	2988.2	8739.6		L:130836	N.WAV115 115 131018 LOUN5115 115 1		-9.7	173.0	0.06113		0.03549	20.7	126.8
								C:BUS:WATERCURE_2301								
								Open 130768 WATRC230	230 130772 SHRED230 230 1				0.24197	0.05180	73.0	227.8
								Open 130757 WATRC345	345 130768 WATRC230 230 1				-0.18210	-0.07197	264.1	49.0
								Open 130763 HILSD230	230 130768 WATRC230 230 1				0.12851	0.00000	0.5	0.5
			28394	2991.4	8742.8		L:130770	SHLDN230 230 131122 WTHRS230 230 1		246.4	540.0	0.09816		0.08335	231.9	481.3
								C:LKWANA-OXBW1								
								Open 417 OXBOW	230 3070 LACKAWNA 230 1				-0.11660	-0.12699	-123.7	-503.5
			28397	2992.7	8744		L:130768	WATRC230 230 130772 SHRED230 230 1		140.7	440.0	0.10001		0.05180	73.0	228.0
								C:130755 OAKDL345	34							
								Open 130755 OAKDL345	345 130757 WATRC345 345 1				-0.25937	-0.18586	-261.1	-817.3
			28400	2994.9	8746.2	*	L:130848	S.OWE115 115 131850 CNYOG115 115 1		-37.0	-143.0	-0.03539		-0.03549	-15.2	-121.5
								C:131128 LAPEER	34							
								Open 131128 LAPEER	345 136153 LAFAYTTE 345 1				0.03223	0.00296	-675.2	-666.4

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 9:45 <PC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Program Files\PTI\MUST 9.0\Program\scratch.rcf  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 31929  
 First violation - -165147.5 MW.

Interface-1 Interface 8 UPNY-CONED O Init.Flow= 5096.59 TDF= 0.4588

From	To	Transfer Level	N	FCITC	Interface-1	Plag	Limiting Constraint	Contingency	Noon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
ON_G_EXP	GHI_IMP	3000.0	1	-165147	-70667.6		L: Interface 21 PJM-WEST	C:ETHS/LLGD1 650	5140.7		0.0	0.03113		0.04418	5120.6	-2176.4	
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1 Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.13792 0.12175	-0.06996 -0.02799	113.5 36.6	11668.0 4658.6	
			2	-144843	-61352.9		L: Interface 21 PJM-WEST	C:130763 HILSD230 230 200675 E.TWANDA 374 Open 130763 HILSD230 230 200675 E.TWANDA 230 1	5134.7		0.0	0.03545		0.04418	5120.6	-1279.3	
								C:130763 HILSD230 230 200675 E.TWANDA 219 Open 130763 HILSD230 230 130768 WATRC230 230 1 Open 130763 HILSD230 230 130768 WATRC230 230 1	5131.5		0.0	0.03764	0.12484	-0.06996 0.04418	113.5 5120.6	10247.4 -903.7	
			3	-136342	-57452.6		L: Interface 21 PJM-WEST	C:130763 HILSD230 230 200675 E.TWANDA 634 Open 130768 WATRC230 230 130772 SHRED230 230 1 Open 130757 WATRC345 345 130768 WATRC230 230 1 Open 130763 HILSD230 230 130768 WATRC230 230 1	5138.2		0.0	0.03839		-0.05806 0.04418	0.11278 5120.6	-187.9 -15564.2	-793.3
			4	-133844	-56307		L: Interface 21 PJM-WEST	C:BUS:WATERCURE_2301 657 Open 9 JUNIATA 500 21 SUNBURY 500 1 Open 21 SUNBURY 500 3084 SUNBURY 230 24	5050.7		0.0	0.03872		0.04418	5120.6	-642.6	
								C:130757 WATRC345 345 130768 WATRC230 213 Open 130757 WATRC345 345 130768 WATRC230 230 1					0.06737	-0.06559	262.4	8737.4	
			5	-130433	-54741.9		L: Interface 21 PJM-WEST	C:SER:HC-SR_37&W-F_1711 601 Open 135398 SW345 345 200769 HOMER CY 345 1 Open 135277 FALCONER 115 200579 WARREN 115 1	5190.9		0.0	0.04182		0.04418	5120.6	-364.2	
								C:135398 SW345 345 200769 HOMER CY 379 Open 135398 SW345 345 200769 HOMER CY 345 1					0.04418	5120.6	-331.9		
			6	-129212	-54181.9		L: Interface 21 PJM-WEST	C:GEN:SALEM1 568 Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch	5374.8		0.0	0.04418		0.04418	5120.6	-254.3	
								C:GEN:PEACHBTM1 569 Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch									
			7	-124133	-51851.8		L: Interface 21 PJM-WEST	C:126260 BOWLINE1 345 146750 WHAV345 79 Open 126260 BOWLINE1 345 146750 WHAV345 345 10	3478.5		0.0	0.05242		0.09432	3278.0	-5024.9	
								C:SIN:301 666 Open 126260 BOWLINE1 345 146841 BOWL 20.0 NA Open 126260 BOWLINE1 345 146750 WHAV345 345 10 Open 126290 LADENTWN 345 146750 WHAV345 345 1						0.09432	3278.0	-2981.5	
			8	-123401	-51515.7		L: Interface 21 PJM-WEST	C:ETHS/NWES/LLGD1 649 Open 130763 HILSD230 230 200675 E.TWANDA 230 1 Open 130836 N.NAV115 115 200676 E.SAYRE 115 1 Open 130807 GOUDY115 115 200680 LAUREL L 115 1	3235.8		0.0	0.05613		0.09432	3278.0	-2159.9	
								C:LKWANA-OXBW1 652 Open 417 OXBOW 230 3070 LACKAWNA 230 1	3329.4		0.0	0.06011		0.09432	3278.0	-1946.0	
			9	-122158	-50945.6		L: Interface 21 PJM-WEST	C:ETHS/NWES/LLGD1 649 Open 130763 HILSD230 230 200675 E.TWANDA 230 1 Open 130836 N.NAV115 115 200676 E.SAYRE 115 1 Open 130807 GOUDY115 115 200680 LAUREL L 115 1	3311.4		0.0	0.07120		0.09432	3278.0	-1108.7	
								C:SER:C398/NWES1 606 Open 409 GROVER 230 200675 E.TWANDA 230 1 Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.09833 0.24424	0.00111 -0.06996	-15.5 113.5	-66.9 3367.4	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Noon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 381 TOWANDA 115 200675 E.TWANDA 230 1					0.01929	-0.00569	-52.8	211.7
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.20676	-0.02917	39.9	1396.6
			1764	-46498.9	-16235.6		L: Interface 20 PJM-CENT			3313.8	0.0	0.07127		0.09432	3278.0	-1107.8
								C:SER:ETHS/NWES1		607						
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.24122	-0.06996	113.5	3366.7
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.21175	-0.02917	39.9	1396.3
			1765	-43513.1	-14865.8		L: Interface 20 PJM-CENT			3306.2	0.0	0.07598		0.09432	3278.0	-826.2
								C:ETHS/LLGD1		650						
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.19416	-0.06996	113.5	3157.8
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.16984	-0.02799	36.6	1254.4
			1766	-42139.8	-14235.7		L: Interface 20 PJM-CENT			3974.6	0.0	0.09432		0.09432	3278.0	-696.6
								C:GEN:PEACHBTM1		569						
								Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch								
			1767	-41597.5	-13987		L: Interface 20 PJM-CENT			3923.5	0.0	0.09432		0.09432	3278.0	-645.5
								C:GEN:SALEM1		568						
								Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch								
			1768	-40255.2	-13371.2 *		L: Interface 20 PJM-CENT			3796.9	0.0	0.09432		0.09432	3278.0	-518.9
								C:SIN:2501		678						
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					-0.00004	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			3523	-7888.4	1477.7		L: Interface 47 C-PJMWest			-483.8	0.0	-0.06133		-0.10375	-550.2	268.2
								C:130755 OAKDL345 345 130757 WATRC345 206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.25046	-0.16934	-264.9	1070.8
			3524	-7888.4	1477.7		L: Interface 61 PJMC2C			483.8	0.0	0.06133		0.10375	550.2	-268.2
								C:130755 OAKDL345 345 130757 WATRC345 206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.25046	-0.16934	-264.9	1070.8
			3525	-7888.4	1477.7		L: Interface 48 PJMWest-C			483.8	0.0	0.06133		0.10375	550.2	-268.2
								C:130755 OAKDL345 345 130757 WATRC345 206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.25046	-0.16934	-264.9	1070.8
			3526	-7888.4	1477.7		L: Interface 60 C2PJMC			-483.8	0.0	-0.06133		-0.10375	-550.2	268.2
								C:130755 OAKDL345 345 130757 WATRC345 206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.25046	-0.16934	-264.9	1070.8
			3527	-6656.1	2043		L: Interface 47 C-PJMWest			-601.7	0.0	-0.09039		-0.10375	-550.2	140.4
								C:SIN:1201		668						
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3528	-6656.1	2043		L: Interface 61 PJMC2C			601.7	0.0	0.09039		0.10375	550.2	-140.4
								C:SIN:1201		668						
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3529	-6656.1	2043		L: Interface 47 C-PJMWest			-601.7	0.0	-0.09039		-0.10375	-550.2	140.4
								C:SIN:1301		669						
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3530	-6656.1	2043		L: Interface 60 C2PJMC			-601.7	0.0	-0.09039		-0.10375	-550.2	140.4
								C:SIN:1201		668						
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3531	-6656.1	2043		L: Interface 48 PJMWest-C			601.7	0.0	0.09039		0.10375	550.2	-140.4
								C:SIN:1301		669						
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
			3532	-6656.1	2043		L: Interface 60 C2PJM	Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
								C:SIN:1301 669								
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3533	-6656.1	2043		L: Interface 61 PJMC2C									
								C:SIN:1301 669								
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3534	-6656.1	2043		L: Interface 48 PJMWest-C									
								C:SIN:1201 668								
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.00649	-0.13828	786.5	1706.9
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.04991	0.23158	39.8	-1501.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 NA								
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3535	-6407	2157.3		L: Interface 61 PJMC2C									
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.10466	-0.25989	-570.9	1094.2
			3536	-6407	2157.3		L: Interface 60 C2PJM									
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.10466	-0.25989	-570.9	1094.2
			3537	-6407	2157.3		L: Interface 48 PJMWest-C									
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.10466	-0.25989	-570.9	1094.2
			3538	-6407	2157.3		L: Interface 47 C-PJMWest									
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					-0.10466	-0.25989	-570.9	1094.2
			3539	-6256.1	2226.5		L: Interface 60 C2PJM									
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1250.7
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.03969	0.23158	-1041.8	-2490.6
			3540	-6256.1	2226.5		L: Interface 61 PJMC2C									
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1250.7
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.03969	0.23158	-1041.8	-2490.6
			3541	-6256.1	2226.5		L: Interface 48 PJMWest-C									
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1250.7
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.03969	0.23158	-1041.8	-2490.6
			3542	-6256.1	2226.5		L: Interface 47 C-PJMWest									
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	1250.7
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.03969	0.23158	-1041.8	-2490.6
			3543	-6195.1	2254.5		L: Interface 60 C2PJM									
								C:GEN:IND PT 2-New1 773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-1208.5
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					0.03829	0.22576	-1018.5	-2417.1
			3544	-6195.1	2254.5		L: Interface 48 PJMWest-C									
								C:GEN:IND PT 2-New1 773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-1208.5
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.03829	0.22576	-1018.5	-2417.1
			3545	-6195.1	2254.5		L: Interface 61 PJMC2C									
								C:GEN:IND PT 2-New1 773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-1208.5
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.03829	0.22576	-1018.5	-2417.1



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3546	-6195.1	2254.5		L: Interface 47 C-PJMWest			-589.2	0.0	-0.09510		-0.10375	-550.2	92.5
								C:GEN:IND PT 2-New1	773							
								Open 126288 IP2 345	345 126651 IND PT 2	22.0 1			0.00000	0.11288	-509.2	-1208.5
								Open 126288 IP2 345	345 126651 IND PT 2	22.0 2			0.03829	0.22576	-1018.5	-2417.1
			3547	-6158.4	2271.3		L: Interface 60 C2PJM			-623.6	0.0	-0.10126		-0.10375	-550.2	88.7
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345	345 200769 HOMER CY	345 1			0.18770	0.01302	-379.1	-459.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			0.06274	0.00061	-36.4	-40.2
			3548	-6158.4	2271.3		L: Interface 47 C-PJMWest			-623.6	0.0	-0.10126		-0.10375	-550.2	88.7
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345	345 200769 HOMER CY	345 1			0.18770	0.01302	-379.1	-459.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			0.06274	0.00061	-36.4	-40.2
			3549	-6158.4	2271.3		L: Interface 48 PJMWest-C			623.6	0.0	0.10126		0.10375	550.2	-88.7
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345	345 200769 HOMER CY	345 1			-0.18770	0.01302	-379.1	-459.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			-0.06274	0.00061	-36.4	-40.2
			3550	-6158.4	2271.3		L: Interface 61 PJM2C			623.6	0.0	0.10126		0.10375	550.2	-88.7
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345	345 200769 HOMER CY	345 1			-0.18770	0.01302	-379.1	-459.3
								Open 135277 FALCONER	115 200579 WARREN	115 1			-0.06274	0.00061	-36.4	-40.2
			3551	-6114.4	2291.5		L: Interface 48 PJMWest-C			636.4	0.0	0.10408		0.10375	550.2	-84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765	765 NA						
								Open 147828 MASS 765	765 180819 CHA-NY	765 NA						
								Open 147827 MARCY765	765 147833 MARCY T1	345 1			0.02481	0.00726	624.3	579.9
								Open 147827 MARCY765	765 147833 MARCY T1	345 2			0.02481	0.00632	543.3	504.7
								Open 156 MCY765SW	0.0 147827 MARCY765	765 NA						
								Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00679	10.7	52.2
								Open 147828 MASS 765	765 147838 MASS230B	230 NA						
								Open 147837 MASS230A	230 147839 MOSES E	230 1			-0.05511	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A	230 NA						
								Open 158 MS765SW2	0.0 147828 MASS 765	765 NA						
								Open 158 MS765SW2	0.0 147828 MASS 765	765 NA						
								Open 157 MS765SW1	0.0 147828 MASS 765	765 NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3552	-6114.4	2291.5		L: Interface 61 PJM2C			636.4	0.0	0.10408		0.10375	550.2	-84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765	765 NA						
								Open 147828 MASS 765	765 180819 CHA-NY	765 NA						
								Open 147827 MARCY765	765 147833 MARCY T1	345 1			0.02481	0.00726	624.3	579.9
								Open 147827 MARCY765	765 147833 MARCY T1	345 2			0.02481	0.00632	543.3	504.7
								Open 156 MCY765SW	0.0 147827 MARCY765	765 NA						
								Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00679	10.7	52.2
								Open 147828 MASS 765	765 147838 MASS230B	230 NA						
								Open 147837 MASS230A	230 147839 MOSES E	230 1			-0.05511	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A	230 NA						
								Open 158 MS765SW2	0.0 147828 MASS 765	765 NA						
								Open 157 MS765SW1	0.0 147828 MASS 765	765 NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3553	-6114.4	2291.5		L: Interface 47 C-PJMWest			-636.4	0.0	-0.10408		-0.10375	-550.2	84.2
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765	765 NA						
								Open 147828 MASS 765	765 180819 CHA-NY	765 NA						
								Open 147827 MARCY765	765 147833 MARCY T1	345 1			-0.02481	0.00726	624.3	579.9
								Open 147827 MARCY765	765 147833 MARCY T1	345 2			-0.02481	0.00632	543.3	504.7
								Open 156 MCY765SW	0.0 147827 MARCY765	765 NA						
								Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00679	10.7	52.2
								Open 147828 MASS 765	765 147838 MASS230B	230 NA						
								Open 147837 MASS230A	230 147839 MOSES E	230 1			0.05511	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A	230 NA						
								Open 158 MS765SW2	0.0 147828 MASS 765	765 NA						
								Open 157 MS765SW1	0.0 147828 MASS 765	765 NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3554	-6114.4	2291.5		L: Interface 60 C2PJM			-636.4	0.0	-0.10408		-0.10375	-550.2	84.2

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765	765 147828 MASS 765	765 NA						
								Open 147828 MASS 765	765 180819 CHA-NY	765 NA						
								Open 147827 MARCY765	765 147833 MARCY T1	345 1			-0.02481	0.00726	624.3	579.9
								Open 147827 MARCY765	765 147833 MARCY T1	345 2			-0.02481	0.00632	543.3	504.7
								Open 156 MCY765SW	0.0 147827 MARCY765	765 NA						
								Open 147838 MASS230B	230 147839 MOSES E	230 1			0.00000	-0.00679	10.7	52.2
								Open 147828 MASS 765	765 147838 MASS230B	230 NA						
								Open 147837 MASS230A	230 147839 MOSES E	230 1			0.05511	0.00000	18.8	18.8
								Open 147828 MASS 765	765 147837 MASS230A	230 NA						
								Open 158 MS765SW2	0.0 147828 MASS 765	765 NA						
								Open 157 MS765SW1	0.0 147828 MASS 765	765 NA						
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			3555	-6090	2302.7		L: Interface 61 PJMC2C			617.7	0.0	0.10143		0.10375	550.2	-81.6
								C:135398 SW345	345 200769 HOMER CY	379						
								Open 135398 SW345	345 200769 HOMER CY	345 1			-0.17807	0.01302	-379.1	-458.4
			3556	-6090	2302.7		L: Interface 60 C2PJMC			-617.7	0.0	-0.10143		-0.10375	-550.2	81.6
								C:135398 SW345	345 200769 HOMER CY	379						
								Open 135398 SW345	345 200769 HOMER CY	345 1			0.17807	0.01302	-379.1	-458.4
			3557	-6090	2302.7		L: Interface 48 PJMWest-C			617.7	0.0	0.10143		0.10375	550.2	-81.6
								C:135398 SW345	345 200769 HOMER CY	379						
								Open 135398 SW345	345 200769 HOMER CY	345 1			-0.17807	0.01302	-379.1	-458.4
			3558	-6090	2302.7		L: Interface 47 C-PJMWest			-617.7	0.0	-0.10143		-0.10375	-550.2	81.6
								C:135398 SW345	345 200769 HOMER CY	379						
								Open 135398 SW345	345 200769 HOMER CY	345 1			0.17807	0.01302	-379.1	-458.4
			3559	-6079.7	2307.4	*	L: Interface 61 PJMC2C			630.7	0.0	0.10375		0.10375	550.2	-80.6
								C:GEN:9 MI PT21		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3560	-6079.7	2307.4	*	L: Interface 47 C-PJMWest			-630.7	0.0	-0.10375		-0.10375	-550.2	80.6
								C:GEN:9 MI PT21		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3561	-6079.7	2307.4	*	L: Interface 48 PJMWest-C			630.7	0.0	0.10375		0.10375	550.2	-80.6
								C:GEN:9 MI PT21		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3562	-6079.7	2307.4	*	L: Interface 60 C2PJMC			-630.7	0.0	-0.10375		-0.10375	-550.2	80.6
								C:GEN:9 MI PT21		562						
								Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch							
			3599	-5805.7	2433.1		L: Interface 55 PJME-NYEnORE			1499.6	1287.0	0.03661		0.00000	1299.9	1299.9
								C:SER:HC-WC_30&W-F 1711		602						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.35373	-0.10375	-550.2	52.1
								Open 135277 FALCONER	115 200579 WARREN	115 1			-0.13834	0.00061	-36.4	-40.0
			3600	-5805.7	2433.1		L: Interface 56 NYE-PJMEEnORE			-1499.6	-1287.0	-0.03661		0.00000	-1299.9	-1299.9
								C:SER:HC-WC_30&W-F 1711		602						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.35373	-0.10375	-550.2	52.1
								Open 135277 FALCONER	115 200579 WARREN	115 1			0.13834	0.00061	-36.4	-40.0
			3625	-5656.5	2501.6		L: Interface 55 PJME-NYEnORE			1493.7	1287.0	0.03654		0.00000	1299.9	1299.9
								C:130757 WATRC345	345 200769 HOMER CY	373						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.35222	-0.10375	-550.2	36.7
			3626	-5656.5	2501.6		L: Interface 56 NYE-PJMEEnORE			-1493.7	-1287.0	-0.03654		0.00000	-1299.9	-1299.9
								C:130757 WATRC345	345 200769 HOMER CY	373						
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.35222	-0.10375	-550.2	36.7
			10495	-5189.4	2715.9		L: Interface 51 G-PJMEast			-240.2	0.0	-0.04629		0.00000	-0.1	-0.1
								C:125001 ROCK TAV	345 126297 RAMAPO	7						
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			-0.21453	0.21578	1119.3	-0.4
			10496	-5189.4	2715.9		L: Interface 52 PJMEast-G			240.2	0.0	0.04629		0.00000	0.1	0.1
								C:125001 ROCK TAV	345 126297 RAMAPO	7						
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.21453	0.21578	1119.3	-0.4
			10497	-5189.4	2715.9		L: Interface 51 G-PJMEast			-240.2	0.0	-0.04629		0.00000	-0.1	-0.1
								C:SIN:4401		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			-0.21453	0.21578	1119.3	-0.4
			10498	-5189.4	2715.9		L: Interface 52 PJMEast-G			240.2	0.0	0.04629		0.00000	0.1	0.1
								C:SIN:4401		684						
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.21453	0.21578	1119.3	-0.4
			10527	-5117.8	2748.7		L: Interface 56 NYE-PJMEEnORE			-1476.2	-1287.0	-0.03697		0.00000	-1299.9	-1299.9
								C:130750 COOPC345	345 130753 FRASR345	192						
								Open 130750 COOPC345	345 130753 FRASR345	345 1			0.17681	-0.20909	-997.0	73.0
			10528	-5117.8	2748.7		L: Interface 55 PJME-NYEnORE			1476.2	1287.0	0.03697		0.00000	1299.9	1299.9
								C:130750 COOPC345	345 130753 FRASR345	192						
								Open 130750 COOPC345	345 130753 FRASR345	345 1			-0.17681	-0.20909	-997.0	73.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10553	-4771.3	2907.7		L: Interface 52 PJMEast-G	C:130750 COOPC345 345 130753 FRASR345 192	154.3		0.0	0.03233		0.00000	0.1	0.1
								Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.15464	-0.20909	-997.0	0.6
			10554	-4771.3	2907.7		L: Interface 51 G-PJMEast	C:130750 COOPC345 345 130753 FRASR345 192	-154.3		0.0	-0.03233		0.00000	-0.1	-0.1
								Open 130750 COOPC345 345 130753 FRASR345 345 1					0.15464	-0.20909	-997.0	0.6
			10563	-4639.9	2968		L: Interface 56 NYE-PJMENoRE	C:SER:HCWC/NWES1 608	-1489.4		-1287.0	-0.04362		0.00000	-1299.9	-1299.9
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.36002	-0.10375	-550.2	-68.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.21504	-0.02917	39.9	175.3
			10564	-4639.9	2968		L: Interface 55 PJME-NYEnoRE	C:SER:HCWC/NWES1 608	1489.4		1287.0	0.04362		0.00000	1299.9	1299.9
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.36002	-0.10375	-550.2	-68.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.21504	-0.02917	39.9	175.3
			10589	-4091.4	3219.6		L: Interface 62 C2PJMw	C:ETHS/NWES/LLGD1 649	-516.3		0.0	-0.12620		-0.23087	-360.3	584.3
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					-0.80840	-0.06996	113.5	399.7
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.83286	-0.02917	39.9	159.3
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					-0.85098	-0.02799	36.6	151.1
			10590	-4091.4	3219.6		L: Interface 63 PJMw2C	C:ETHS/NWES/LLGD1 649	516.3		0.0	0.12620		0.23087	360.3	-584.3
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.80840	-0.06996	113.5	399.7
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.83286	-0.02917	39.9	159.3
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.85098	-0.02799	36.6	151.1
			10595	-3719.8	3390.1		L: Interface 26 ONTARIO-MICH	C:ETHS/NWES/LLGD1 649	752.0		0.0	0.20217		0.21844	727.7	-84.8
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.12798	-0.06996	113.5	373.7
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.13034	-0.02917	39.9	148.4
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.12543	-0.02799	36.6	140.7
			10596	-3580.5	3454		L: Interface 26 ONTARIO-MICH	C:SER:ETHS/NWES1 607	744.1		0.0	0.20783		0.21844	727.7	-54.4
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.10718	-0.06996	113.5	364.0
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.10658	-0.02917	39.9	144.4
			10597	-3580.1	3454.2		L: Interface 26 ONTARIO-MICH	C:SER:C398/NWES1 606	744.0		0.0	0.20782		0.21844	727.7	-54.3
								Open 409 GROVER 230 200675 E.TWANDA 230 1					0.00016	0.00111	-15.5	-19.5
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.10742	-0.06996	113.5	363.9
								Open 381 TOWANDA 115 200675 E.TWANDA 230 1					0.00252	-0.00569	-52.8	-32.4
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.10593	-0.02917	39.9	144.3
			10598	-3522.7	3480.5		L: Interface 26 ONTARIO-MICH	C:ETHS/LLGD1 650	740.4		0.0	0.21017		0.21844	727.7	-41.8
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.08360	-0.06996	113.5	359.9
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.08641	-0.02799	36.6	135.2
			10599	-3519.2	3482.1		L: Interface 26 ONTARIO-MICH	C:W44LC1 643	754.4		0.0	0.21438		0.21844	727.7	-41.0
								Open 160062 LONGWOOD 220 160074 COWALJ44 220 1					-0.16057	0.02073	188.5	115.5
								Open 160074 COWALJ44 220 160134 BUCHJW44 220 1					0.16304	-0.00447	335.0	350.8
								Open 160054 BUCHANAN 220 160134 BUCHJW44 220 1					-0.00035	0.00447	-256.8	-272.5
								Open 160055 CHATHAM 220 160074 COWALJ44 220 1					0.71979	0.00000	3.2	3.2
			10600	-3518.9	3482.2		L: Interface 26 ONTARIO-MICH	C:W45LC1 644	754.4		0.0	0.21438		0.21844	727.7	-40.9
								Open 160062 LONGWOOD 220 160075 COWALJ45 220 1					-0.16051	0.02071	188.5	115.6
								Open 160075 COWALJ45 220 160135 BUCHJW45 220 1					0.16298	-0.00447	334.9	350.6
								Open 160054 BUCHANAN 220 160135 BUCHJW45 220 1					-0.00035	0.00447	-262.9	-278.7
								Open 160055 CHATHAM 220 160075 COWALJ45 220 1					0.71976	0.00000	3.1	3.1
			10601	-3508.4	3487		L: Interface 26 ONTARIO-MICH	C:BUS:GOWANUS_S_3451 625	766.4		0.0	0.21844		0.21844	727.7	-38.6
								Open 126287 GOWANUSS 345 126591 GOWANUS 42SR 345 BY					-0.00065	0.00000	0.0	0.0
								Open 126287 GOWANUSS 345 126429 GOWNUS2T 138 1					-0.00041	0.00000	100.0	100.0
								Open 126287 GOWANUSS 345 126622 GATE 3 138 1					0.00000	0.00000	45.4	45.4
								Open 126287 GOWANUSS 345 126623 GATE 4 138 1					0.00000	0.00000	41.4	41.4
								Open 126285 GOTHLS S 345 126287 GOWANUSS 345 1					-0.00197	0.00000	444.1	444.1
								Open 126286 GOWANUSN 345 126287 GOWANUSS 345 1					0.15376	0.00000	257.3	257.3
			10602	-3505.6	3488.4		L: Interface 26 ONTARIO-MICH	C:BUS:GOWANUS_N_3451 624	765.7		0.0	0.21844		0.21844	727.7	-38.0
								Open 126286 GOWANUSN 345 126287 GOWANUSS 345 1					-0.00200	0.00000	0.0	0.0
								Open 126286 GOWANUSN 345 126590 GOWANUS 41SR 345 BY					-0.00265	0.00000	0.0	0.0
								Open 126286 GOWANUSN 345 126427 GOWNUS1T 138 1					-0.00240	0.00000	100.0	100.0
								Open 126286 GOWANUSN 345 126620 GATE 1 138 1					-0.00200	0.00000	45.4	45.4
								Open 126286 GOWANUSN 345 126621 GATE 2 138 1					-0.00200	0.00000	45.4	45.4
								Open 126283 GOTHLS N 345 126286 GOWANUSN 345 1					0.15176	0.00000	253.3	253.3
			10603	-3501.9	3490		L: Interface 26 ONTARIO-MICH		764.5		0.0	0.21830		0.21844	727.7	-37.2





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12383	-2068	4147.9	*	L: Interface 62 C2PJMW	C:SIN:1301	669	-437.1	0.0	-0.21138		-0.23087	-360.3	117.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1				-0.02164	-0.13828	786.5	1072.5
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2				-0.02164	-0.13828	786.5	1072.5
								Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1				0.05831	0.23158	39.8	-439.1
								Open 126263 BUCHANAN S 345 147832 IP3 345	345 NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	345 NA							
								Remove unit 1 from bus 147798 IP#3 GEN 22.0	1072.8 MW dispatch							
			12384	-2059.9	4151.6		L: Interface 55 PJME-NYEnoRE	C:147834 NIAG 345 345 149000 ROCH 345	226	1354.3	1287.0	0.03265		0.00000	1299.9	1299.9
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				0.12877	0.25356	422.0	-100.3
			12385	-2059.9	4151.6		L: Interface 56 NYE-PJMEEnoRE	C:147834 NIAG 345 345 149000 ROCH 345	226	-1354.3	-1287.0	-0.03265		0.00000	-1299.9	-1299.9
								Open 147834 NIAG 345 345 149000 ROCH 345	345 1				-0.12877	0.25356	422.0	-100.3
			12416	-1857.3	4244.5		L: Interface 56 NYE-PJMEEnoRE	C:130755 OAKDL345 345 130757 WATRC345	206	-1368.9	-1287.0	-0.04411		0.00000	-1299.9	-1299.9
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.26048	-0.16934	-264.9	49.6
			12417	-1857.3	4244.5		L: Interface 55 PJME-NYEnoRE	C:130755 OAKDL345 345 130757 WATRC345	206	1368.9	1287.0	0.04411		0.00000	1299.9	1299.9
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.26048	-0.16934	-264.9	49.6
			15899	-1308.8	4496.1		L: Interface 56 NYE-PJMEEnoRE	C:ILKWANA-OXBW1	652	-1369.7	-1287.0	-0.06316		0.00000	-1299.9	-1299.9
								Open 417 OXBOW 230 3070 LACKAWNA	230 1				0.54599	-0.11567	-127.7	23.6
			15900	-1308.8	4496.1		L: Interface 55 PJME-NYEnoRE	C:ILKWANA-OXBW1	652	1369.7	1287.0	0.06316		0.00000	1299.9	1299.9
								Open 417 OXBOW 230 3070 LACKAWNA	230 1				-0.54599	-0.11567	-127.7	23.6
			15903	-1106.4	4589		L: Interface 51 G-PJMEast	C:ILKWANA-OXBW1	652	-48.7	0.0	-0.04398		0.00000	-0.1	-0.1
								Open 417 OXBOW 230 3070 LACKAWNA	230 1				0.38021	-0.11567	-127.7	0.2
			15904	-1106.4	4589		L: Interface 52 PJMEast-G	C:ILKWANA-OXBW1	652	48.7	0.0	0.04398		0.00000	0.1	0.1
								Open 417 OXBOW 230 3070 LACKAWNA	230 1				-0.38021	-0.11567	-127.7	0.2
			15905	-435.7	4896.7		L:126294 PLTVLLEY 345 137451 LEEDS 3	C:126294 PLTVLLEY 345 137455 ATHENS	121	-1833.4	-1725.0	-0.24873		-0.17511	-1284.4	-1208.1
								Open 126294 PLTVLLEY 345 137455 ATHENS	345 1				0.44120	-0.16688	-1244.2	-1171.5
			15906	-290.4	4963.4		L:126294 PLTVLLEY 345 137455 ATHENS	C:126294 PLTVLLEY 345 137451 LEEDS 3	120	-1795.3	-1725.0	-0.24200		-0.16688	-1244.2	-1195.8
								Open 126294 PLTVLLEY 345 137451 LEEDS 3	345 2				0.42902	-0.17511	-1284.4	-1233.6
			15907	-13.6	5090.3		L:146758 CHESTER 138 146771 SHOEM138	C:125001 ROCK TAV 345 126297 RAMAPO	7	-317.8	-317.0	-0.06026		-0.03289	-175.8	-175.4
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				-0.12684	0.21578	1119.3	1116.4
			15908	-13.6	5090.3		L:146758 CHESTER 138 146771 SHOEM138	C:SIN:4401	684	-317.8	-317.0	-0.06026		-0.03289	-175.8	-175.4
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				-0.12684	0.21578	1119.3	1116.4
			NA	106.3	5145.4	R	L:125021 DC CBLTP 115 125041 N.CHELSE	C:125015 AC CBLTP 115 125041 N.CHELSE	16	319.9	316.0	-0.03647		-0.01920	168.6	166.6
								Open 125015 AC CBLTP 115 125041 N.CHELSE	115 1				0.93208	-0.01853	162.3	160.3
			NA	116.4	5150	R	L:125021 DC CBLTP 115 125041 N.CHELSE	C:125015 AC CBLTP 115 125020 DANSKAMA	15	320.2	316.0	-0.03647		-0.01920	168.6	166.4
								Open 125015 AC CBLTP 115 125020 DANSKAMA	115 1				-0.93208	0.01853	-162.7	-160.5
			15909	266	5218.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	Base Case		-1284.4	-1331.0	-0.17511				
			15910	370.6	5266.6		L: Interface 49 C-PJMCentral	C:SER:HC-WC_30&W-F_1711	602	56.3	0.0	-0.15181		-0.12712	189.9	142.8
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.23837	-0.10375	-550.2	-588.6
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.0061	-36.4	-36.2	
			NA	370.6	5266.6	R	L: Interface 49 C-PJMCentral	C:SER:HC-WC_30&W-F_1711	602	56.3	0.0	-0.15181		-0.12712	189.9	142.8
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.23837	-0.10375	-550.2	-588.6
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.0061	-36.4	-36.2	
			15911	370.6	5266.6		L: Interface 50 PJMCentral-C	C:SER:HC-WC_30&W-F_1711	602	-56.3	0.0	0.15181		0.12712	-189.9	-142.8
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.23837	-0.10375	-550.2	-588.6
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.06948	0.00061	-36.4	-36.2
			NA	370.6	5266.6	R	L: Interface 50 PJMCentral-C	C:SER:HC-WC_30&W-F_1711	602	-56.3	0.0	0.15181		0.12712	-189.9	-142.8
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.23837	-0.10375	-550.2	-588.6
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.06948	0.00061	-36.4	-36.2
			15914	373.3	5267.8		L: Interface 50 PJMCentral-C	C:SER:HCWC/NWES1	608	-52.6	0.0	0.14078		0.12712	-189.9	-142.5
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.22550	-0.10375	-550.2	-588.9



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
			15936	897.8	5508.5		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 125000 HURLEY 3 345 137451 LEEDS 3 345 2	345 1		-1569.7	-1725.0	-0.17297		-0.64394	-0.14609	-901.1	-1015.4
								C:125002 ROSETON 345 126281 FISHKILL 10										
			15937	897.8	5508.5		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 125002 ROSETON 345 126281 FISHKILL 345 1 345 2	345 1		-1569.7	-1725.0	-0.17297		-0.18921	-0.01129	1507.8	1497.6
								C:SIN:4301 683										
			15938	920.5	5518.9		L:146771 SHOEM138 138 146772 SHOEMTAP	Open 125002 ROSETON 345 126281 FISHKILL 345 1 138 1	345 1		-626.5	-707.0	-0.08747		-0.18921	-0.01129	1507.8	1497.6
								C:SIN:4401 684										
			15939	920.5	5518.9		L:146771 SHOEM138 138 146772 SHOEMTAP	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 138 1	345 1		-626.5	-707.0	-0.08747		-0.16093	0.21578	1119.3	1318.0
								C:125001 ROCK TAV 345 126297 RAMAPO 7										
			15940	929.9	5523.2		L:126294 PLTVLLEY 345 137455 ATHENS	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 345 1	345 1		-1527.2	-1725.0	-0.21275		-0.16093	0.21578	1119.3	1318.0
								C:125000 HURLEY 3 345 137451 LEEDS 3 3										
			15945	968.5	5540.9		L:146758 CHESTER 138 146771 SHOEM138	Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1	345 1		-261.3	-317.0	-0.05752		0.31399	-0.14609	-901.1	-1036.9
								C:125001 ROCK TAV 345 146754 MDTN TAP 9										
			15948	1004.1	5557.2		L:130750 COOPC345 345 130753 FRASR345	Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1 345 1	345 1		-997.0	-1207.0	-0.20909		0.19956	-0.12343	-428.2	-547.7
			15949	1014.7	5562.1		L:126294 PLTVLLEY 345 137451 LEEDS 3	Base Case 345 2			-1476.9	-1725.0	-0.24447			-0.17511	-1284.4	-1462.1
								C:137451 LEEDS 3 345 137455 ATHENS 6										
			15960	1079.2	5591.7		L: Interface 14 Leeds-PV	Open 137451 LEEDS 3 345 137455 ATHENS 345 1	345 1		3085.4	3450.0	0.33782		-0.44120	0.15722	436.3	595.9
								C:SIN:4301 683										
			15961	1079.2	5591.7		L: Interface 14 Leeds-PV	Open 125002 ROSETON 345 126281 FISHKILL 345 1	345 1		3085.4	3450.0	0.33782		0.36926	-0.01129	1507.8	1495.6
								C:125002 ROSETON 345 126281 FISHKILL 10										
			15972	1155.4	5626.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 125002 ROSETON 345 126281 FISHKILL 345 1 345 2	345 1		-1478.3	-1725.0	-0.21352		0.36926	-0.01129	1507.8	1495.6
								C:125000 HURLEY 3 345 125002 ROSETON 1										
			15973	1165.9	5631.4	*	L: Interface 56 NYE-PJMENoRE	Open 125000 HURLEY 3 345 125002 ROSETON 345 1	345 1		-1244.2	-1287.0	-0.03670		-0.29336	0.13094	660.9	812.2
								C:ETHS/LLGD1 650										
			15974	1165.9	5631.4	*	L: Interface 55 PJME-NYENoRE	Open 130763 HILSD230 230 200675 E.TWANDA 230 1 Open 130807 GOUDY115 115 200680 LAUREL L 115 1	230 1 115 1		1244.2	1287.0	0.03670		0.00000	1299.9	1299.9	
								C:ETHS/LLGD1 650										
			15999	1269.6	5679		L:126294 PLTVLLEY 345 137455 ATHENS	Open 130763 HILSD230 230 200675 E.TWANDA 230 1 Open 130807 GOUDY115 115 200680 LAUREL L 115 1	230 1 115 1		-1515.7	-1725.0	-0.16485		-0.43280	-0.02799	36.6	3.9
								C:ETHS/LLGD1 650										
			16000	1269.6	5679		L:126294 PLTVLLEY 345 137455 ATHENS	Open 125002 ROSETON 345 126281 FISHKILL 345 1 345 1	345 1		-1515.7	-1725.0	-0.16485		-0.18006	-0.01129	1507.8	1493.4
								C:125002 ROSETON 345 126281 FISHKILL 10										
			16003	1302.2	5694		L: Interface 14 Leeds-PV	Open 125002 ROSETON 345 126281 FISHKILL 345 1	345 1		2907.1	3450.0	0.41695		-0.18006	-0.01129	1507.8	1493.4
								C:125000 HURLEY 3 345 125002 ROSETON 1										
			16026	1366	5723.3		L:146754 MDTN TAP 345 146772 SHOEMTAP	Open 125000 HURLEY 3 345 125002 ROSETON 345 1 138 1	345 1		626.5	746.0	0.08747		0.57253	0.13094	660.9	831.4
								C:125001 ROCK TAV 345 126297 RAMAPO 7										
			16027	1366	5723.3		L:146754 MDTN TAP 345 146772 SHOEMTAP	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 138 1	345 1		626.5	746.0	0.08747		0.16093	0.21578	1119.3	1414.1
								C:SIN:4401 684										
			16050	1410.2	5743.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 125001 ROCK TAV 345 126297 RAMAPO 345 1 345 2	345 1		-1433.9	-1725.0	-0.20645		0.16093	0.21578	1119.3	1414.1
								C:130750 COOPC345 345 130753 FRASR345 192										
			16065	1423.6	5749.7		L:137451 LEEDS 3 345 137452 N.SCOT77	Open 130750 COOPC345 345 130753 FRASR345 345 1 345 1	345 1		-1355.3	-1724.0	-0.25900		0.14988	-0.20909	-997.0	-1291.9
								C:137451 LEEDS 3 345 137453 N.SCOT99 5										
			16102	1438.7	5756.6		L:137451 LEEDS 3 345 137453 N.SCOT99	Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2 345 2	345 2		-1352.2	-1724.0	-0.25839		0.56507	-0.16489	-863.0	-1097.7
								C:137451 LEEDS 3 345 137452 N.SCOT77 4										
			16151	1456.3	5764.7		L:126294 PLTVLLEY 345 137455 ATHENS	Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1	345 1		-1428.7	-1725.0	-0.20343		0.56387	-0.16583	-867.6	-1106.2
								C:125000 HURLEY 3 345 125002 ROSETON 1										
			16158	1458.2	5765.6		L:130750 COOPC345 345 130753 FRASR345	Open 125000 HURLEY 3 345 125002 ROSETON 345 1 345 1	345 1		-1318.2	-1703.0	-0.26387		-0.27917	0.13094	660.9	851.6
								C:130750 COOPC345 345 147833 MARCY T1 196										
			NA	1487.2	5778.9	R	L: Interface 52 PJMEast-G	Open 130750 COOPC345 345 147833 MARCY T1 345 1	345 1		-73.3	0.0	0.04928		0.43312	-0.12647	-741.6	-926.0



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Noon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
			16395	1487.2	5778.9		L: Interface 51 G-PJMEast				73.3	0.0	-0.04928	0.00000	-0.1	-0.1
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
			NA	1487.2	5778.9	R	L: Interface 51 G-PJMEast				73.3	0.0	-0.04928	0.00000	-0.1	-0.1
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
			16396	1487.2	5778.9		L: Interface 52 PJMEast-G				-73.3	0.0	0.04928	0.00000	0.1	0.1
								C:ETHS/NWES/LLGD1	649							
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
								Open 130807 GOUDY115	115	200680	LAUREL L	115	1			
			NA	1507.5	5788.2	R	L: Interface 51 G-PJMEast				46.1	0.0	-0.03057	0.00000	-0.1	-0.1
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230	200675	E.TWANDA	230	1			
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 381 TOWANDA	115	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
			19133	1507.5	5788.2		L: Interface 52 PJMEast-G				-46.1	0.0	0.03057	0.00000	0.1	0.1
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230	200675	E.TWANDA	230	1			
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 381 TOWANDA	115	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
			NA	1507.5	5788.2	R	L: Interface 52 PJMEast-G				-46.1	0.0	0.03057	0.00000	0.1	0.1
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230	200675	E.TWANDA	230	1			
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 381 TOWANDA	115	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
			19134	1507.5	5788.2	*	L: Interface 51 G-PJMEast				46.1	0.0	-0.03057	0.00000	-0.1	-0.1
								C:SER:C398/NWES1	606							
								Open 409 GROVER	230	200675	E.TWANDA	230	1			
								Open 130763 HILSD230	230	200675	E.TWANDA	230	1			
								Open 381 TOWANDA	115	200675	E.TWANDA	230	1			
								Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			
			NA	1512.5	5790.5	R	L: Interface 54 NYE-PJME				-1000.3	-787.0	0.14102	0.00000	-452.1	-452.1
								C:SIN:1301	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			
								Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			
								Open 126263 BUCHANAN S	345	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
			NA	1512.5	5790.5	R	L: Interface 53 PJME-NYE	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								C:SIN:1301	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			
								Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			
								Open 126263 BUCHANAN S	345	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
			NA	1512.5	5790.5	R	L: Interface 54 NYE-PJME	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								C:SIN:1201	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			
								Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			
								Open 126263 BUCHANAN S	345	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
								Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	NA			
			NA	1512.5	5790.5	R	L: Interface 54 NYE-PJME	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								C:SIN:1201	668							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.55572	0.17618	875.2	1223.9
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.07882	-0.12343	-428.2	-672.4
			19507	2005.3	6016.5	*	L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1348.1	-1725.0	-0.18793		-0.17511	-1284.4	-1635.6
								C:130750 COOPC345 345 146754 MDTN TAP 195					-0.07281	0.17618	875.2	1228.5
			19508	2015.4	6021.2		L:135452 LOCKPORT 115 135872 SOUR-111	115 1		93.1	159.0	0.03270		0.02192	75.2	119.3
								C:147834 NIAG 345 345 149000 ROCH 345 226					0.04252	0.25356	422.0	933.1
			19509	2032.5	6029		L: Interface 23 QFW			905.1	0.0	-0.44532		-0.44532	1090.3	185.2
								C:GEN:9 MI PT21 562								
			NA	2032.5	6029	R	L: Interface 23 QFW			905.1	0.0	-0.44532		-0.44532	1090.3	185.2
								C:GEN:9 MI PT21 562								
								Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
			NA	2036.4	6030.8	R	L: Interface 23 QFW			913.8	0.0	-0.44873		-0.44532	1090.3	183.5
								C:HQ-NY-765-New1 777								
								Open 147827 MARCY765 765 147828 MASS 765 765 NA								
								Open 147828 MASS 765 765 180819 CHA-NY 765 NA								
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.25133	0.00726	624.3	639.1
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.25133	0.00632	543.3	556.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 NA								
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00679	10.7	-3.1
								Open 147828 MASS 765 765 147838 MASS230B 230 NA								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09617	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 NA								
								Open 158 MS765SW2 0.0 147828 MASS 765 765 NA								
								Open 157 MS765SW1 0.0 147828 MASS 765 765 NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			19510	2036.4	6030.8		L: Interface 23 QFW			913.8	0.0	-0.44873		-0.44532	1090.3	183.5
								C:HQ-NY-765-New1 777								
								Open 147827 MARCY765 765 147828 MASS 765 765 NA								
								Open 147828 MASS 765 765 180819 CHA-NY 765 NA								
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.25133	0.00726	624.3	639.1
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.25133	0.00632	543.3	556.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 NA								
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00679	10.7	-3.1
								Open 147828 MASS 765 765 147838 MASS230B 230 NA								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09617	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 NA								
								Open 158 MS765SW2 0.0 147828 MASS 765 765 NA								
								Open 157 MS765SW1 0.0 147828 MASS 765 765 NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			19520	2100.6	6060.3		L: Interface 23 QFW			935.4	0.0	-0.44532		-0.44532	1090.3	154.9
								C:GEN:GINN1 563								
			NA	2100.6	6060.3	R	L: Interface 23 QFW			935.4	0.0	-0.44532		-0.44532	1090.3	154.9
								C:GEN:GINN1 563								
								Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch								
			19521	2115.2	6067		L:135872 SOUR-111 115 135873 SWDN-111	115 1		89.8	159.0	0.03270		0.02192	71.9	118.2
								C:147834 NIAG 345 345 149000 ROCH 345 226					0.04252	0.25356	422.0	958.4
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1								
			19522	2116.9	6067.7		L: Interface 14 Leeds-PV			2669.5	3450.0	0.36869		0.34199	2528.6	3252.6
								C:SER:CMT34&MTR341 594								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.18267	0.17618	875.2	1248.2
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.12343	-428.2	-689.5	
			NA	2124.8	6071.4	R	L: Interface 53 PJME-NYE			1086.8	787.0	-0.14109		0.00000	452.1	452.1
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.1
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.60925	0.23158	-1041.8	-549.7
			NA	2124.8	6071.4	R	L: Interface 54 NYE-PJME			-1086.8	-787.0	0.14109		0.00000	-452.1	-452.1
								C:GEN:IND PT 3-New1 774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.1
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.60925	0.23158	-1041.8	-549.7
			NA	2125.8	6071.8	R	L: Interface 53 PJME-NYE			1085.4	787.0	-0.14039		0.00000	452.1	452.1
								C:GEN:IND PT 2-New1 773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			NA	2125.8	6071.8	R	L: Interface 54 NYE-PJME	Open 126288 IP2 345 345 126651 IND PT 2 22.0 2		-1085.4	-787.0	0.14039	-0.62186	0.22576	-1018.5	-538.5	
							C:GEN:IND PT 2-Newl		77.3								
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-269.3	
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.62186	0.22576	-1018.5	-538.5	
			19526	2129.4	6073.5		L: Interface 14 Leeds-PV			2670.3	3450.0	0.36615		0.34199	2528.6	3256.9	
							C:130750 COOPC345 345 147833 MARCY T1		196								
							Open 130750 COOPC345 345 147833 MARCY T1		345 1				-0.19103	-0.12647	-741.6	-1010.9	
			19528	2158.7	6086.9		L: Interface 23 QFW			961.3	0.0	-0.44532		-0.44532	1090.3	129.0	
							C:GEN:SEABROOK1		574								
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			19529	2158.7	6086.9	*	L: Interface 23 QFW			961.3	0.0	-0.44532		-0.44532	1090.3	129.0	
							C:GEN:SEAB&OMS1		576								
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2				0.00003	0.00000	-0.1	-0.1	
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW dispatch								
			19530	2164.3	6089.5		L:130753 FRASR345 345 130755 OAKDL345		345 1	-767.4	-1380.0	-0.28302		-0.25989	-570.9	-1133.4	
							C:130753 FRASR345 345 137200 EDIC		202								
							Open 130753 FRASR345 345 137200 EDIC		345 1				0.27553	-0.08394	-713.2	-894.9	
			19531	2166.1	6090.3		L:130819 KATEL115 115 130838 OAKDL115		115 1	-122.0	-192.0	-0.03231		-0.01605	-86.3	-121.0	
							C:130753 FRASR345 345 130755 OAKDL345		200				0.06258	-0.25989	-570.9	-1133.9	
							Open 130753 FRASR345 345 130755 OAKDL345		345 1				-0.16489	-0.16489	-863.0	-1220.8	
			19535	2169.9	6092		L:137451 LEEDS 3 345 137453 N.SCOT99		345 2	-1218.1	-1724.0	-0.23313					
							C:BUS:N.S._771		615								
							Open 137452 N.SCOT77 345 137453 N.SCOT99		345 1				0.60778	-0.03749	-243.2	-324.5	
							Open 137452 N.SCOT77 345 137516 N.SCOT1		115 1				0.40442	-0.00364	113.3	105.4	
							Open 137200 EDIC 345 137452 N.SCOT77		345 1				-0.33528	0.15650	822.9	1162.5	
							Open 137450 ALPS345 345 137452 N.SCOT77		345 1				-0.26699	-0.03181	-85.1	-154.2	
							Open 137451 LEEDS 3 345 137452 N.SCOT77		345 1				0.20565	0.00000	0.0	0.0	
			19536	2171.5	6092.8		L: Interface 14 Leeds-PV			2653.0	3450.0	0.36702		0.34199	2528.6	3271.3	
							C:130750 COOPC345 345 146754 MDTN TAP		195				0.14209	0.17618	875.2	1257.8	
							Open 130750 COOPC345 345 146754 MDTN TAP		345 1				-0.01853	162.3	122.0		
			NA	2173	6093.5	R	L:125015 AC CBLTP 115 125041 N.CHELSE		115 1	319.1	240.0	-0.03638		-0.01853	162.3	122.0	
							C:125021 DC CBLTP 115 125041 N.CHELSE		29								
							Open 125021 DC CBLTP 115 125041 N.CHELSE		115 1				0.92978	-0.01920	168.6	126.9	
			NA	2180.3	6096.9	R	L:125015 AC CBLTP 115 125041 N.CHELSE		115 1	319.3	240.0	-0.03638		-0.01853	162.3	121.9	
							C:125020 DANSKAMA 115 125021 DC CBLTP		25								
							Open 125020 DANSKAMA 115 125021 DC CBLTP		115 1				0.92978	-0.01920	168.9	127.1	
			19539	2192.1	6102.3		L:146754 MDTN TAP 345 146772 SHOEMTAP		138 1	446.4	562.0	0.05274					
							Base Case										
			19540	2198.8	6105.3		L:135859 LAPPINS1 115 135866 NLEROYTA		115 1	100.0	173.0	0.03319		0.02588	78.3	135.2	
							C:130754 KINTI345 345 149000 ROCH 345		205				0.04136	0.17671	524.4	913.0	
							Open 130754 KINTI345 345 149000 ROCH 345		345 1				0.34199	2528.6	3288.5		
			19542	2221.9	6115.9		L: Interface 14 Leeds-PV			2633.5	3450.0	0.36747		0.34199	2528.6	3288.5	
							C:SER:PV LM_3981		598				0.33663	0.07570	311.7	479.9	
							Open 103105 LONG MTN 345 103117 CTNY398		345 1				-0.23706	0.00000	0.2	0.2	
							Open 103117 CTNY398 345 126294 PLTVLLEY		345 1				0.34199	2528.6	3288.5		
			19543	2221.9	6115.9	*	L: Interface 14 Leeds-PV			2633.5	3450.0	0.36747		0.34199	2528.6	3288.5	
							C:103117 CTNY398 345 126294 PLTVLLEY		361				0.33663	0.07570	311.5	479.7	
							Open 103117 CTNY398 345 126294 PLTVLLEY		345 1				-0.20909	-0.20909	-997.0	-1470.3	
			19553	2263.6	6135		L:130750 COOPC345 345 130753 FRASR345		345 1	-1081.4	-1703.0	-0.27462		-0.20909	-997.0	-1470.3	
							C:130753 FRASR345 345 147831 GILB 345		203				-0.39408	0.16629	214.0	590.4	
							Open 130753 FRASR345 345 147831 GILB 345		345 1				-0.06559	262.4	113.7		
			19554	2267	6136.6		L:130757 WATRC345 345 130768 WATRC230		230 1	461.0	600.0	0.06133					
							C:130755 OAKDL345 345 130757 WATRC345		206				-0.74954	-0.16934	-264.9	-648.8	
							Open 130755 OAKDL345 345 130757 WATRC345		345 1				-0.02632	-62.5	-122.4		
			19555	2273.9	6139.8		L:135862 MUMFORD1 115 135866 NLEROYTA		115 1	-83.9	-173.0	-0.03917					
							C:147834 NIAG 345 345 149000 ROCH 345		226				-0.05070	0.25356	422.0	998.6	
							Open 147834 NIAG 345 345 149000 ROCH 345		345 1				0.05274	446.4	566.4		
			19557	2275.4	6140.5		L:146754 MDTN TAP 345 146772 SHOEMTAP		138 1	554.8	746.0	0.08401					
							C:125001 ROCK TAV 345 146754 MDTN TAP		9				-0.25331	-0.12343	-428.2	-709.0	
							Open 125001 ROCK TAV 345 146754 MDTN TAP		345 1				-0.16688	-1244.2	-1626.5		
			19558	2290.6	6147.4		L:126294 PLTVLLEY 345 137455 ATHENS		345 1	-1312.9	-1725.0	-0.17990		-0.08907	0.17618	875.2	1278.8
							C:SER:CMT34&MTR341		594				-0.02164	-0.12343	-428.2	-710.9	
							Open 130750 COOPC345 345 146754 MDTN TAP		345 1				-0.16688	-1244.2	-1628.8		
							Open 125001 ROCK TAV 345 146754 MDTN TAP		345 1								
			19564	2304.3	6153.7		L:126294 PLTVLLEY 345 137455 ATHENS		345 1	-1313.3	-1725.0	-0.17866		0.09315	-0.12647	-741.6	-1033.0
							C:130750 COOPC345 345 147833 MARCY T1		196				0.02179	86.3	137.1		
							Open 130750 COOPC345 345 147833 MARCY T1		345 1								
			19573	2332.8	6166.8		L:135452 LOCKPORT 115 135876 TELRDTP1		115 1	104.1	180.0	0.03252		0.04231	0.25356	422.0	1013.5
							C:147834 NIAG 345 345 149000 ROCH 345		226								
							Open 147834 NIAG 345 345 149000 ROCH 345		345 1				0.04231	0.25356	422.0	1013.5	
			19588	2346	6172.8		L:126294 PLTVLLEY 345 137455 ATHENS		345 1	-1304.9	-1725.0	-0.17909		-0.16688	-1244.2	-1635.7	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130750 COOPC345 345 146754 MDTN TAP 195								
			19609	2377.9	6187.5		L:146758 CHESTER 138 146771 SHOEM138	Open 130750 COOPC345 345 146754 MDTN TAP 345 1		-239.9	-317.0	-0.03241	-0.06929	0.17618	875.2	1288.5
								C:125002 ROSETON 345 126281 FISHKILL 10								
			19610	2377.9	6187.5		L:146758 CHESTER 138 146771 SHOEM138	Open 125002 ROSETON 345 126281 FISHKILL 345 1		-239.9	-317.0	-0.03241	-0.04251	-0.01129	1507.8	1480.9
								C:SIN:4301 683								
			19618	2382.7	6189.7		L:130750 COOPC345 345 130753 FRASR345	Open 125002 ROSETON 345 126281 FISHKILL 345 1		-1147.2	-1703.0	-0.23325	-0.04251	-0.01129	1507.8	1480.9
								C:137451 LEEDS 3 345 147831 GILB 345 7								
			19629	2396.1	6195.8	*	L:126294 PLTVLLEY 345 137455 ATHENS	Open 137451 LEEDS 3 345 147831 GILB 345 345 1		-1295.4	-1725.0	-0.17931	0.16357	-0.14770	-918.2	-1270.1
								C:SIN:PV LM 3981 598								
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					-0.16415	0.07570	311.7	493.0
			19645	2407.5	6201.1		L:135850 SOUR-114 115 135861 MORTIMER	Open 103117 CTNY398 345 126294 PLTVLLEY 345 1		71.1	153.0	0.03403	0.02281	0.00000	0.2	0.2
								C:147834 NIAG 345 345 149000 ROCH 345 226								
			19680	2424	6208.6		L: Interface 59 MarcySouthS	Open 147834 NIAG 345 345 149000 ROCH 345 345 1		1738.6	2552.0	0.33556	0.04425	0.25356	422.0	1032.5
								Base Case								
			21113	2453.1	6222		L:130836 N.WAV115 115 131018 LOUN515	115 1		49.5	173.0	0.05033	0.03233	21.4	100.7	
								C:130755 OAKDL345 345 130757 WATRC345 206								
			21234	2458.8	6224.6		L:130764 MEYER230 230 131122 WTHRS230	Open 130755 OAKDL345 345 130757 WATRC345 345 1		-243.1	-430.0	-0.07603	-0.10627	-0.16934	-264.9	-680.3
								Base Case								
			21253	2460.8	6225.5		L:137451 LEEDS 3 345 137452 N.SCOT77	345 1		-1188.8	-1724.0	-0.21749	-0.16583	-867.6	-1275.7	
								C:137451 LEEDS 3 345 147831 GILB 345 7								
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34978	-0.14770	-918.2	-1281.6
			21321	2468.1	6228.9		L:135452 LOCKPORT 115 135851 SHEL-113	115 1		98.3	180.0	0.03308	0.02217	80.2	134.9	
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04302	0.25356	422.0	1047.9
			21393	2492.3	6240		L:137451 LEEDS 3 345 137453 N.SCOT99	345 2		-1184.3	-1724.0	-0.21656	-0.16489	-863.0	-1273.9	
								C:137451 LEEDS 3 345 147831 GILB 345 7								
								Open 137451 LEEDS 3 345 147831 GILB 345 345 1					0.34988	-0.14770	-918.2	-1286.3
			21414	2497.7	6242.5		L:137453 N.SCOT99 345 147833 MARCY T1	345 1		-1234.6	-1792.0	-0.22318	-0.16790	-920.0	-1339.4	
								C:SIN:1601 671								
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35321	0.15650	822.9	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19917	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					-0.00023	-0.00030	74.9	74.2
			21415	2497.7	6242.5		L:137453 N.SCOT99 345 147833 MARCY T1	345 1		-1234.6	-1792.0	-0.22318	-0.16790	-920.0	-1339.4	
								C:SIN:1501 670								
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.35321	0.15650	822.9	1213.8
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.19919	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					-0.00016	-0.00019	88.8	88.3
			21419	2498.2	6242.7		L:130815 HINMN115 115 135452 LOCKPORT	115 1		191.9	280.0	0.03526	0.02255	170.8	227.1	
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.05011	0.25356	422.0	1055.5
			22935	2530.7	6257.6		L:130794 DELHI115 115 130851 SIDNT115	115 1		-34.1	-120.0	-0.03395	-0.01874	-0.7	-48.1	
								C:130753 FRASR345 345 130755 OAKDL345 200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.05851	-0.25989	-570.9	-1228.7
			22975	2542.9	6263.2		L:130815 HINMN115 115 131611 HARS115	115 1		-218.8	-306.0	-0.03429	-0.02195	-198.3	-254.1	
								C:147834 NIAG 345 345 149000 ROCH 345 226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04868	0.25356	422.0	1066.8
			23064	2596.5	6287.8		L:130770 SHLDN230 230 131122 WTHRS230	230 1		232.9	430.0	0.07592				
								Base Case								
			23068	2598.4	6288.7		L:130764 MEYER230 230 131122 WTHRS230	230 1		-307.3	-540.0	-0.08955	-0.07603	-243.1	-440.6	
								C:SIN:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11956	-0.10375	-550.2	-819.8
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.03820	-0.02917	39.9	-35.9
			23093	2619.8	6298.5		L:135862 MUMFORD1 115 135866 NLEROYTA	115 1		-84.6	-173.0	-0.03375	-0.02632	-62.5	-131.5	
								C:130754 KINTI345 345 149000 ROCH 345 205								
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					-0.04206	0.17671	524.4	987.4
			23094	2619.9	6298.5		L:146758 CHESTER 138 146771 SHOEM138	138 1		-175.8	-262.0	-0.03289				
								Base Case								
			23100	2626.8	6301.7		L:130764 MEYER230 230 131122 WTHRS230	230 1		-308.1	-540.0	-0.08829	-0.07603	-243.1	-442.8	
								C:130757 WATRC345 345 200769 HOMER CY 373								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.11817	-0.10375	-550.2	-822.7
			23103	2628.7	6302.5		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-446.4	-585.0	-0.05274				
								Base Case								
			23107	2632	6304.1		L:130753 FRASR345 345 130755 OAKDL345	345 1		-570.9	-1255.0	-0.25989				
								Base Case								
			23124	2645.6	6310.3		L:137453 N.SCOT99 345 147833 MARCY T1	345 1		-1204.6	-1792.0	-0.22203	-0.16790	-920.0	-1364.2	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:137200 EDIC 345 137452 N.SCOT77	946								
			23131	2653	6313.7		L:130764 MEYER230 230 131122 WTHRS230	Open 137200 EDIC 345 137452 N.SCOT77	345 1				-0.34585	0.15650	822.9	1236.9	
								230 1		-305.8	-540.0	-0.08826	-0.07603	-0.00000	-243.1	-444.8	
								C:SER:HC-WC_304W-F_1711	602								
								Open 130757 WATRC345 345 200769 HOMER CY	345 1					0.11760	-0.10375	-550.2	-825.4
								Open 135277 FALCONER 115 200579 WARREN	115 1					-0.05270	0.00061	-36.4	-34.8
			23160	2669.7	6321.4		L:130753 FRASR345 345 130755 OAKDL345	345 1		-650.1	-1380.0	-0.27340		-0.25989	-570.9	-1264.8	
								C:130750 COOPC345 345 147833 MARCY T1	196								
								Open 130750 COOPC345 345 147833 MARCY T1	345 1					0.10676	-0.12647	-741.6	-1079.2
			23196	2679.8	6326		L:137200 EDIC 345 137452 N.SCOT77	345 1		1153.9	1724.0	0.21274		0.15650	822.9	1242.3	
								C:SIN:1701	672								
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1					-0.33493	-0.16790	-920.0	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					0.19089	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1					0.00024	-0.00030	74.9	74.1
			23197	2679.8	6326		L:137200 EDIC 345 137452 N.SCOT77	345 1		1153.9	1724.0	0.21274		0.15650	822.9	1242.3	
								C:SIN:1801	673								
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1					-0.33493	-0.16790	-920.0	-1370.0
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					0.19091	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1					0.00016	-0.00019	88.8	88.3
			24587	2698.9	6334.7		L:130750 COOPC345 345 130753 FRASR345	345 1		-1095.6	-1703.0	-0.22507		-0.20909	-997.0	-1561.4	
								C:125000 HURLEY 3 345 137451 LEEDS 3	3								
								Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1					0.10935	-0.14609	-901.1	-1295.4
			24677	2707.2	6338.5		L:130753 FRASR345 345 130755 OAKDL345	345 1		-643.4	-1380.0	-0.27210		-0.25989	-570.9	-1274.5	
								C:SIN:1801	673								
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1					0.07267	-0.16790	-920.0	-1374.6
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					-0.04703	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1					0.00061	-0.00019	88.8	88.3
			24679	2707.2	6338.6		L:130753 FRASR345 345 130755 OAKDL345	345 1		-643.4	-1380.0	-0.27210		-0.25989	-570.9	-1274.5	
								C:SIN:1701	672								
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1					0.07267	-0.16790	-920.0	-1374.6
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					-0.04711	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1					0.00092	-0.00030	74.9	74.1
			24699	2712.7	6341.1		L:130750 COOPC345 345 130753 FRASR345	345 1		-1098.3	-1703.0	-0.22290		-0.20909	-997.0	-1564.2	
								C:126294 PLTVLLEY 345 137451 LEEDS 3	120								
								Open 126294 PLTVLLEY 345 137451 LEEDS 3	345 2					0.07887	-0.17511	-1284.4	-1759.4
			24711	2715.5	6342.4		L:130770 SHLDN230 230 131122 WTHRS230	230 1		297.1	540.0	0.08944		0.07592	232.9	439.0	
								C:SER:HCWC/NWES1	608								
								Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.11956	-0.10375	-550.2	-831.9
								Open 130836 N.NAV115 115 200676 E.SAYRE	115 1					-0.03820	-0.02917	39.9	-39.3
			24736	2723.9	6346.2		L:130753 FRASR345 345 130755 OAKDL345	345 1		-672.1	-1380.0	-0.25989		-0.25989	-570.9	-1278.9	
								C:SIN:2501	678								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			24754	2736.5	6352		L:130753 FRASR345 345 130755 OAKDL345	345 1		-636.2	-1380.0	-0.27180		-0.25989	-570.9	-1282.1	
								C:137453 N.SCOT99 345 147833 MARCY T1	12								
								Open 137453 N.SCOT99 345 147833 MARCY T1	345 1					0.07094	-0.16790	-920.0	-1379.5
			24765	2740.5	6353.8		L:130767 STOLE230 230 130770 SHLDN230	230 1		222.2	430.0	0.07581					
								Base Case									
			24773	2745.6	6356.2		L:130770 SHLDN230 230 131122 WTHRS230	230 1		297.9	540.0	0.08818		0.07592	232.9	441.3	
								C:130757 WATRC345 345 200769 HOMER CY	373								
								Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.11817	-0.10375	-550.2	-835.0
			24774	2747.7	6357.2		L:130750 COOPC345 345 130753 FRASR345	345 1		-1093.1	-1703.0	-0.22197		-0.20909	-997.0	-1571.6	
								C:126294 PLTVLLEY 345 137455 ATHENS	121								
								Open 126294 PLTVLLEY 345 137455 ATHENS	345 1					0.07719	-0.16688	-1244.2	-1702.8
			24782	2752.9	6359.5		L:130753 FRASR345 345 130755 OAKDL345	345 1		-634.3	-1380.0	-0.27089		-0.25989	-570.9	-1286.4	
								C:SIN:1501	670								
								Open 137200 EDIC 345 137452 N.SCOT77	345 1					-0.07029	0.15650	822.9	1253.7
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION	115 1					0.00061	-0.00019	88.8	88.3
			24783	2752.9	6359.5		L:130753 FRASR345 345 130755 OAKDL345	345 1		-634.3	-1380.0	-0.27089		-0.25989	-570.9	-1286.4	
								C:SIN:1601	671								
								Open 137200 EDIC 345 137452 N.SCOT77	345 1					-0.07029	0.15650	822.9	1253.7
								Open 137228 INGMS-CD 115 137886 INGHAM-E	115 1					-0.04615	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY	115 1					0.00092	-0.00030	74.9	74.1
			24786	2754.1	6360.1		L:131018 LOUN115 115 131850 CNYOG115	115 1		15.6	143.0	0.04627		0.03233	17.9	106.9	
								C:BUS:WATERCURE_3451	633								
								Open 130757 WATRC345 345 200769 HOMER CY	345 1					-0.05666	-0.10375	-550.2	-835.9
								Open 130757 WATRC345 345 130768 WATRC230	230 1					-0.12284	-0.06559	262.4	81.7
								Open 130755 OAKDL345 345 130757 WATRC345	345 1					-0.05531	0.00000	22.9	22.9
			24793	2762.4	6363.9		L:130753 FRASR345 345 130755 OAKDL345	345 1		-662.1	-1380.0	-0.25989		-0.25989	-570.9	-1288.9	
								C:GEN:SEAB&OMS1	576								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					0.00002	0.00000	-0.1	-0.1



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:147834 NIAG 345 345 149000 ROCH 345 226								
			24989	2869.7	6413.1		L:130767 STOLE230 230 130770 SHLDN230	Open 147834 NIAG 345 345 149000 ROCH 345 345 1		287.3	540.0	0.08807	-0.04499	0.25356	422.0	1143.8
								C:130757 WATRC345 345 200769 HOMER CY 373								
			25034	2873.2	6414.7		L:131018 LOUNSL15 115 131850 CNYOG115	Open 130757 WATRC345 345 200769 HOMER CY 345 1		47.9	143.0	0.03309	-0.11817	-0.10375	-550.2	-847.9
								C:130755 OAKDL345 345 131128 LAPEER 209								
			25053	2874.1	6415.1		L:130750 COOPC345 345 130753 FRASR345	Open 130755 OAKDL345 345 131128 LAPEER 345 1		-1064.0	-1703.0	-0.22234	-0.05020	-0.01510	-598.3	-641.7
								C:125000 HURLEY 3 345 125002 ROSETON 1								
			26375	2886.2	6420.7		L:137451 LEEDS 3 345 147831 GILB 345	Open 125000 HURLEY 3 345 125002 ROSETON 345 1		-1317.4	-1912.0	-0.20601	-0.10123	0.13094	660.9	1037.3
								C:BUS:N.S. 991 616								
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					0.62610	-0.03074	-308.1	-396.8
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.16119	-0.16790	-920.0	-1404.6
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					0.03268	-0.00374	120.3	109.5
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.07200	-0.16489	-863.0	-1338.9
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.10448	0.00000	1.6	1.6
			26433	2891.4	6423.1		L:131018 LOUNSL15 115 131850 CNYOG115	C:130768 WATRC230 230 130772 SHRED230 227		29.0	143.0	0.03942	0.03233	17.9	111.4	
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.15025	0.04719	74.0	210.5
			26462	2896.1	6425.2		L:130767 STOLE230 230 130770 SHLDN230	C:SER:HC-WC_30&W-F_1711 602		285.0	540.0	0.08804	0.07581	222.2	441.8	
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11760	-0.10375	-550.2	-850.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.05270	0.00061	-36.4	-34.7
			26472	2899.2	6426.6		L:137200 EDIC 345 137452 N.SCOT77	C:BUS:N.S. 991 616		1121.1	1724.0	0.20794	0.15650	822.9	1276.6	
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.18531	-0.03074	-308.1	-397.2
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.38310	-0.16790	-920.0	-1406.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.09741	-0.00374	120.3	109.4
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.11491	-0.16489	-863.0	-1341.0
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					-0.24150	0.00000	1.6	1.6
			26501	2906.9	6430.2		L: Interface 54 NYE-PJME	C:BUS:WATERCURE 3451 633		-623.5	-787.0	-0.05624	0.00000	-452.1	-452.1	
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.42106	-0.10375	-550.2	-851.8
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.19141	-0.06559	262.4	71.7
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.43800	0.00000	22.9	22.9
			26502	2906.9	6430.2		L: Interface 53 PJME-NYE	C:BUS:WATERCURE 3451 633		623.5	787.0	0.05624	0.00000	452.1	452.1	
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.42106	-0.10375	-550.2	-851.8
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.19141	-0.06559	262.4	71.7
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.43800	0.00000	22.9	22.9
			26504	2908.8	6431.1		L:131018 LOUNSL15 115 131850 CNYOG115	C:SER:OAKDALE WATRC2301 595		28.3	143.0	0.03942	0.03233	17.9	111.9	
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.15025	0.04719	74.0	211.3
								Open 130765 OAKDL230 230 130772 SHRED230 230 NA					-0.10160	0.00000	6.8	6.8
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.10160	0.00000	6.8	6.8
			26507	2909.2	6431.2		L:135861 MORTIMER 115 135874 SWDN-113	C:147834 NIAG 345 345 149000 ROCH 345 226		-50.9	-153.0	-0.03509	-0.02352	-31.6	-100.1	
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04563	0.25356	422.0	1159.7
			26513	2910.7	6431.9		L:131018 LOUNSL15 115 131850 CNYOG115	C:130765 OAKDL230 230 130772 SHRED230 222		17.9	112.0	0.03233				
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					-0.15025	-0.04719	-67.5	-205.1
			26526	2916.2	6434.4		L:131018 LOUNSL15 115 131850 CNYOG115	C:130765 OAKDL230 230 130772 SHRED230 222		28.0	143.0	0.03942	0.03233	17.9	112.2	
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					-0.15025	-0.04719	-67.5	-205.1
			26527	2917.2	6434.9		L:131018 LOUNSL15 115 131850 CNYOG115	C:130765 OAKDL230 230 130838 OAKDL115 223		28.0	143.0	0.03942	0.03233	17.9	112.2	
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					0.15025	0.04719	67.3	204.9
			26533	2920.7	6436.5		L: Interface 32 F-To-G	C:130750 COOPC345 345 130753 FRASR345 192		4216.0	6118.0	0.65119	0.54797	3723.9	5324.3	
								Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.49365	-0.20909	-997.0	-1607.7
			26546	2932.8	6442		L:130848 S.OEW115 115 131850 CNYOG115	C:130755 OAKDL345 345 131128 LAPEER 209		-46.0	-143.0	-0.03309	-0.05020	-0.01510	-598.3	-642.6
								Open 130755 OAKDL345 345 131128 LAPEER 345 1					-0.03233	-15.9	-111.0	
			26555	2941.4	6446		L:130848 S.OEW115 115 131850 CNYOG115	C:130768 WATRC230 230 130772 SHRED230 227		-27.0	-143.0	-0.03942	0.05020	-0.01510	-598.3	-642.6
								Open 130768 WATRC230 230 130772 SHRED230 230 1					-0.15025	0.04719	74.0	212.8
			26556	2943.2	6446.8		L:135859 LAPPINS1 115 135866 NLEROYTA	C:130754 KINTI345 345 147834 NIAG 345 204		76.4	173.0	0.03281	0.02588	78.3	154.5	
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.04136	-0.16754	45.9	-447.2
			26560	2947.1	6448.6		L:130770 SHLDN230 230 131122 WTHRS230	C:147834 NIAG 345 345 149000 ROCH 345 226		263.0	540.0	0.09400	0.07592	232.9	456.6	



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			26570	2958.9	6454		L:130848 S.OWE115 115 131850 CNYOG115	Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.07130	0.25356	422.0	1169.3
								115 1		-26.4	-143.0	-0.03942		-0.03233	-15.9	-111.6
								C:SER:OAKDALE_WATRC2301		595						
								Open 130768 WATRC230 230 130772 SHRED230 230 1					-0.15025	0.04719	74.0	213.6
								Open 130765 OAKDL230 230 130772 SHRED230 230 NA								
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					0.10160	0.00000	6.8	6.8
			26573	2965	6456.8		L:131018 LOUNSI115 115 131850 CNYOG115	115 1		-19.6	143.0	0.05484		0.03233	17.9	113.8
								C:130763 HILSD230 230 130768 WATRC230		219						
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.19958	0.11278	-187.9	146.5
			26574	2966.2	6457.4		L:130848 S.OWE115 115 131850 CNYOG115	115 1		-26.1	-143.0	-0.03942		-0.03233	-15.9	-111.8
								C:130765 OAKDL230 230 130772 SHRED230		222						
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					0.15025	-0.04719	-67.5	-207.5
			26576	2967.2	6457.8		L:130848 S.OWE115 115 131850 CNYOG115	115 1		-26.0	-143.0	-0.03942		-0.03233	-15.9	-111.9
								C:130765 OAKDL230 230 130838 OAKDL115		223						
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.15025	0.04719	67.3	207.3
			26577	2968.9	6458.6		L:130750 COOPC345 345 130753 FRASR345	345 1		-1051.1	-1703.0	-0.21958		-0.20909	-997.0	-1617.8
								C:BUS:N.S._771		615						
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.03869	-0.03749	-243.2	-354.5
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.01601	-0.00364	113.3	102.5
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.05551	0.15650	822.9	1287.5
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					0.00921	-0.03181	-85.1	-179.6
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					-0.01096	0.00000	0.0	0.0
			26578	2969.4	6458.9		L:130753 FRASR345 345 137200 EDIC	345 1		-890.7	-1380.0	-0.16477		-0.08394	-713.2	-962.4
								C:130753 FRASR345 345 130755 OAKDL345		200						
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.31099	-0.25989	-570.9	-1342.7
			26581	2971.6	6459.9		L:130848 S.OWE115 115 131850 CNYOG115	115 1		-15.9	-112.0	-0.03233				
								Base Case								
			26599	2989.7	6468.2		L: Interface 59 MarcySouthS			1940.7	3048.0	0.37036		0.33556	1738.6	2741.8
								C:BUS:N.S._991		616						
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					-0.09642	-0.03074	-308.1	-400.0
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.15079	-0.16790	-920.0	-1422.0
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00330	-0.00374	120.3	109.1
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					-0.03947	-0.16489	-863.0	-1356.0
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.02280	0.00000	1.6	1.6

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 9:49 <PC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Program Files\PTI\MUST 9.0\Program\scratch.rcf  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 37193  
 First violation - -110552.1 MW.

Interface-1 Interface 33 MLWD-SOUTH-C Init.Flow= 7872.40 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ABCDEFGH	H_IMPORT	3000.0	1	-110552	-102679		L: Interface 20 PJM-CENT	C:126294	120		3329.1	0.0	0.03011	0.02313	3278.0	721.4
								Open 126294	PLTVLLEY	345	137451	LEEDS 3	-0.03979	-0.17565	-1284.4	18133.6
			2	-109820	-101948		L: Interface 20 PJM-CENT	C:SER:CM1	594		3333.9	0.0	0.03036	0.02313	3278.0	738.4
								Open 130750	COOPC345	345	146754	MDTN TAP	0.07978	0.12737	875.2	-13112.9
								Open 125001	ROCK TAV	345	146754	MDTN TAP	0.03257	-0.08992	-428.2	9447.0
			3	-108218	-100345		L: Interface 20 PJM-CENT				3336.4	0.0	0.03083	0.02313	3278.0	775.4
								C:137200	946							
								Open 137200	EDIC	345	137452	N.SCOT77	0.07097	0.10856	822.9	-10925.7
			4	-107760	-99887.9		L: Interface 20 PJM-CENT	C:SIN:150	670		3343.9	0.0	0.03103	0.02313	3278.0	786.0
								Open 137200	EDIC	345	137452	N.SCOT77	0.07282	0.10856	822.9	-10876.0
								Open 137228	INGMS-CD	115	137886	INGHAM-E	0.05009	0.00000	119.9	119.9
								Open 137235	PORTER 1	115	147905	ILION	-0.00015	-0.00048	88.8	140.5
			5	-107759	-99887.5		L: Interface 20 PJM-CENT	C:SIN:160	671		3343.9	0.0	0.03103	0.02313	3278.0	786.0
								Open 137200	EDIC	345	137452	N.SCOT77	0.07282	0.10856	822.9	-10876.0
								Open 137228	INGMS-CD	115	137886	INGHAM-E	0.05011	0.00000	119.9	119.9
								Open 137235	PORTER 1	115	137246	VALLEY	-0.00023	-0.00070	74.9	150.6
			6	-107552	-99680.2		L: Interface 20 PJM-CENT	C:147834	226		3325.1	0.0	0.03092	0.02313	3278.0	790.8
								Open 147834	NIAG 345	345	149000	ROCH 345	0.11154	0.06985	422.0	-7090.1
			7	-105566	-97694.3		L: Interface 20 PJM-CENT	C:137453	12		3345.2	0.0	0.03169	0.02313	3278.0	836.7
								Open 137453	N.SCOT99	345	147833	MARCY T1	-0.07310	-0.11714	-920.0	11446.4
			8	-105078	-97206.1		L: Interface 20 PJM-CENT	C:SIN:180	673		3353.1	0.0	0.03191	0.02313	3278.0	848.0
								Open 137453	N.SCOT99	345	147833	MARCY T1	-0.07499	-0.11714	-920.0	11389.2
								Open 137228	INGMS-CD	115	137886	INGHAM-E	0.05104	0.00000	119.9	119.9
								Open 137235	PORTER 1	115	147905	ILION	-0.00015	-0.00048	88.8	139.2
			9	-105078	-97205.8		L: Interface 20 PJM-CENT	C:SIN:170	672		3353.1	0.0	0.03191	0.02313	3278.0	848.0
								Open 137453	N.SCOT99	345	147833	MARCY T1	-0.07499	-0.11714	-920.0	11389.2
								Open 137228	INGMS-CD	115	137886	INGHAM-E	0.05106	0.00000	119.9	119.9
								Open 137235	PORTER 1	115	137246	VALLEY	-0.00023	-0.00070	74.9	148.7
			10	-103693	-95820.6*		L: Interface 20 PJM-CENT	C:130750	196		3348.0	0.0	0.03229	0.02313	3278.0	880.1
								Open 130750	COOPC345	345	147833	MARCY T1	-0.09444	-0.09702	-741.6	9318.6
			25	+37478.7	-29606.3		L: Interface 23 QFW				1180.5	0.0	0.03150	0.02041	1090.3	325.5
								C:130754	205							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			26	-36009.2	-28136.8		L: Interface 23 QFW	Open 130754 KINTI345	345	149000	ROCH 345	0.17204	0.06447	524.4	-1891.8	
								C:SER:EES	612	1084.2	0.0	0.03011	0.02041	1090.3	355.5	
								Open 135251 S RIPLEY	230	200654	ERIE E	0.36120	0.02172	9.1	-773.1	
								Open 135277 FALCONER	115	200579	WARREN	0.31047	0.00721	-36.4	-296.2	
			27	-35529.8	-27657.4		L: Interface 23 QFW	Open 130836 N.WAV115	115	200676	E.SAYRE	0.04849	-0.00790	39.9	324.4	
								C:SER:EES	610	1082.3	0.0	0.03046	0.02041	1090.3	365.2	
								Open 135251 S RIPLEY	230	200654	ERIE E	0.36020	0.02172	9.1	-762.7	
								Open 135277 FALCONER	115	200579	WARREN	0.30929	0.00721	-36.4	-292.7	
			28	-35224.5	-27352.1		L: Interface 23 QFW			1073.0	0.0	0.03046	0.02041	1090.3	371.5	
								C:SER:ESH	611							
								Open 270 ERIE SO.	230	531	ERIE SE	0.00129	-0.01196	17.5	438.7	
								Open 531 ERIE SE	230	200654	ERIE E	-0.36095	-0.02172	16.9	782.0	
								Open 135277 FALCONER	115	200579	WARREN	0.30905	0.00721	-36.4	-290.5	
			29	-34367.9	-26495.5		L: Interface 23 QFW			1077.2	0.0	0.03134	0.02041	1090.3	389.0	
								C:136150	717							
								Open 136150 CLAY	345	149001	PANNELL3	-0.14085	-0.07764	93.3	2761.5	
			30	-34304.5	-26432.1		L: Interface 23 QFW			1077.1	0.0	0.03140	0.02041	1090.3	390.3	
								C:136150	718							
								Open 136150 CLAY	345	149001	PANNELL3	-0.14111	-0.07789	93.6	2765.6	
										1177.8	0.0	0.03489	0.02041	1090.3	401.5	
								C:147834	226							
			32	-19338	-11465.6		L: Interface 47 C-PJMWest	Open 147834 NIAG 345	345	149000	ROCH 345	0.20740	0.06985	422.0	-1935.7	
										-630.7	0.0	-0.03262	-0.03262	-550.2	80.6	
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
			33	-19338	-11465.6		L: Interface 48 PJMWest-C			630.7	0.0	0.03262	0.03262	550.2	-80.6	
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
			34	-19338	-11465.6		L: Interface 60 C2PJMC			-630.7	0.0	-0.03262	-0.03262	-550.2	80.6	
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
			35	-19338	-11465.6		L: Interface 61 PJMC2C			630.7	0.0	0.03262	0.03262	550.2	-80.6	
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
			36	-18955.5	-11083.1		L: Interface 47 C-PJMWest			-618.3	0.0	-0.03262	-0.03262	-550.2	68.1	
								C:SIN:250	678							
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch					
			37	-18955.5	-11083.1		L: Interface 60 C2PJMC			-618.3	0.0	-0.03262	-0.03262	-550.2	68.1	
								C:SIN:250	678							
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch					
			38	-18955.5	-11083.1		L: Interface 61 PJMC2C			618.3	0.0	0.03262	0.03262	550.2	-68.1	
								C:SIN:250	678							
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch					
			39	-18955.5	-11083.1		L: Interface 48 PJMWest-C			618.3	0.0	0.03262	0.03262	550.2	-68.1	
								C:SIN:250	678							
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch					
			40	-18953	-11080.6		L: Interface 48 PJMWest-C			618.2	0.0	0.03262	0.03262	550.2	-68.0	
								C:GEN:SEA	576							
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000	-0.1	-0.1	
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch					
			41	-18953	-11080.6		L: Interface 48 PJMWest-C			618.2	0.0	0.03262	0.03262	550.2	-68.0	
								C:GEN:SEA	574							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			42	-18953	-11080.6		L: Interface 60 C2PJM	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	576		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			43	-18953	-11080.6		L: Interface 60 C2PJM	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	574		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0
			44	-18953	-11080.6		L: Interface 47 C-PJMWest	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	574		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0
			45	-18953	-11080.6		L: Interface 61 PJMC2C	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	576		618.2	0.0	0.03262		0.03262	550.2	-68.0
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			46	-18953	-11080.6		L: Interface 47 C-PJMWest	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	576		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			47	-18953	-11080.6		L: Interface 61 PJMC2C	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:SEA	574		618.2	0.0	0.03262		0.03262	550.2	-68.0
			48	-18789.1	-10916.7		L: Interface 61 PJMC2C	Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW dispatch						
								C:GEN:MIL	573		612.8	0.0	0.03262		0.03262	550.2	-62.7
			49	-18789.1	-10916.7		L: Interface 60 C2PJM	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MLS	575		-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			50	-18789.1	-10916.7		L: Interface 61 PJMC2C	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MLS	575		612.8	0.0	0.03262		0.03262	550.2	-62.7
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			51	-18789.1	-10916.7		L: Interface 48 PJMWest-C	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MIL	573		612.8	0.0	0.03262		0.03262	550.2	-62.7
			52	-18789.1	-10916.7		L: Interface 60 C2PJM	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MIL	573		-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
			53	-18789.1	-10916.7		L: Interface 47 C-PJMWest	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MIL	573		-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
			54	-18789.1	-10916.7		L: Interface 47 C-PJMWest	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MLS	575		-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			55	-18789.1	-10916.7		L: Interface 48 PJMWest-C	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:GEN:MLS	575		612.8	0.0	0.03262		0.03262	550.2	-62.7
								Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1	
			56	-18687.8	-10815.5		L: Interface 48 PJMWest-C	Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW dispatch						
								C:HQ-NY-7	777		636.4	0.0	0.03405		0.03262	550.2	-59.4
								Open 147827 MARCY7	NA								
								Open 147828 MASS 7	NA								
								Open 147827 MARCY765	765	147833	MARCY T1	0.02481	0.03100		624.3	45.0	
								Open 147827 MARCY765	765	147833	MARCY T1	0.02481	0.02695		543.3	39.6	
								Open 156 MCY765	NA								
								Open 147838 MASS230B	230	147839	MOSES E	0.00000	-0.02898		10.7	552.2	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 7	NA							
								Open 147837 MASS230A	230 147839 MOSES E				-0.05511	0.00000	18.8	18.8
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			57	-18687.8	-10815.5		L: Interface 60 C2PJM									
								C:HQ-NY-7	777							
								Open 147827 MARCY7	NA							
								Open 147828 MASS 7	NA							
								Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.03100	624.3	45.0
								Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.02695	543.3	39.6
								Open 156 MCY765	NA							
								Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
								Open 147828 MASS 7	NA							
								Open 147837 MASS230A	230 147839 MOSES E				0.05511	0.00000	18.8	18.8
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			58	-18687.8	-10815.5		L: Interface 61 PJMC2C									
								C:HQ-NY-7	777							
								Open 147827 MARCY7	NA							
								Open 147828 MASS 7	NA							
								Open 147827 MARCY765	765 147833 MARCY T1				0.02481	0.03100	624.3	45.0
								Open 147827 MARCY765	765 147833 MARCY T1				0.02481	0.02695	543.3	39.6
								Open 156 MCY765	NA							
								Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
								Open 147828 MASS 7	NA							
								Open 147837 MASS230A	230 147839 MOSES E				-0.05511	0.00000	18.8	18.8
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
								Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
								Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			59	-18687.8	-10815.5		L: Interface 47 C-PJWest									
								C:HQ-NY-7	777							
								Open 147827 MARCY7	NA							
								Open 147828 MASS 7	NA							
								Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.03100	624.3	45.0
								Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.02695	543.3	39.6
								Open 156 MCY765	NA							
								Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
								Open 147828 MASS 7	NA							
								Open 147837 MASS230A	230 147839 MOSES E				0.05511	0.00000	18.8	18.8
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
								Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final		
								Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch										
								Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch										
			60	-18683.2	-10810.8		L: Interface 61 PJMC2C		603.2		0.0	0.03229		0.03262	550.2	-59.2		
								C:GEN:FII	560									
								Open 136155 SCRIBA	345	147830	JA FITZP	-0.00490		0.06771	-61.1	-1326.2		
								Open 137200 EDIC	345	147830	JA FITZP	-0.07687		0.00000	43.4	43.4		
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch										
			61	-18683.2	-10810.8		L: Interface 60 C2PJMC		-603.2		0.0	-0.03229		-0.03262	-550.2	59.2		
								C:GEN:FII	560									
								Open 136155 SCRIBA	345	147830	JA FITZP	0.00490		0.06771	-61.1	-1326.2		
								Open 137200 EDIC	345	147830	JA FITZP	0.07687		0.00000	43.4	43.4		
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch										
			62	-18683.2	-10810.8		L: Interface 48 PJMWest-C		603.2		0.0	0.03229		0.03262	550.2	-59.2		
								C:GEN:FII	560									
								Open 136155 SCRIBA	345	147830	JA FITZP	-0.00490		0.06771	-61.1	-1326.2		
								Open 137200 EDIC	345	147830	JA FITZP	-0.07687		0.00000	43.4	43.4		
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch										
			63	-18683.2	-10810.8		L: Interface 47 C-PJMWest		-603.2		0.0	-0.03229		-0.03262	-550.2	59.2		
								C:GEN:FII	560									
								Open 136155 SCRIBA	345	147830	JA FITZP	0.00490		0.06771	-61.1	-1326.2		
								Open 137200 EDIC	345	147830	JA FITZP	0.07687		0.00000	43.4	43.4		
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch										
			64	-18173.8	-10301.4		L: Interface 48 PJMWest-C		592.8		0.0	0.03262		0.03262	550.2	-42.6		
								C:GEN:INI	556									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch										
			65	-18173.8	-10301.4		L: Interface 60 C2PJMC		-592.8		0.0	-0.03262		-0.03262	-550.2	42.6		
								C:GEN:INI	556									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch										
			66	-18173.8	-10301.4		L: Interface 61 PJMC2C		592.8		0.0	0.03262		0.03262	550.2	-42.6		
								C:GEN:INI	556									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch										
			67	-18173.8	-10301.4		L: Interface 47 C-PJMWest		-592.8		0.0	-0.03262		-0.03262	-550.2	42.6		
								C:GEN:INI	556									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch										
			68	-18167	-10294.6	*	L: Interface 48 PJMWest-C		593.3		0.0	0.03266		0.03262	550.2	-42.4		
								C:MULT011	654									
								Open 4 CNASTONE	500	26 HUNTRTN	-0.02291		-0.00129	-1490.0	-1466.7			
								Open 26 HUNTRTN	500	1152 HUNTRSTN	0.02213		0.00049	404.7	395.9			
			69	-18167	-10294.6	*	L: Interface 47 C-PJMWest		-593.3		0.0	-0.03266		-0.03262	-550.2	42.4		
								C:MULT011	654									
								Open 4 CNASTONE	500	26 HUNTRTN	0.02291		-0.00129	-1490.0	-1466.7			
								Open 26 HUNTRTN	500	1152 HUNTRSTN	-0.02213		0.00049	404.7	395.9			
			70	-18167	-10294.6	*	L: Interface 61 PJMC2C		593.3		0.0	0.03266		0.03262	550.2	-42.4		
								C:MULT011	654									
								Open 4 CNASTONE	500	26 HUNTRTN	-0.02291		-0.00129	-1490.0	-1466.7			
								Open 26 HUNTRTN	500	1152 HUNTRSTN	0.02213		0.00049	404.7	395.9			
			71	-18167	-10294.6	*	L: Interface 60 C2PJMC		-593.3		0.0	-0.03266		-0.03262	-550.2	42.4		
								C:MULT011	654									
								Open 4 CNASTONE	500	26 HUNTRTN	0.02291		-0.00129	-1490.0	-1466.7			
								Open 26 HUNTRTN	500	1152 HUNTRSTN	-0.02213		0.00049	404.7	395.9			
			7044	-13360.9	-5488.5		L: Interface 62 C2PJMW		-516.3		0.0	-0.03864		-0.06705	-360.3	535.7		
								C:ETHS/NW	649									
								Open 130763 HILSD230	230	200675 E.TWANDA	-0.80840		-0.01768	113.5	349.7			
								Open 130836 N.WAV115	115	200676 E.SAYRE	-0.83286		-0.00790	39.9	145.5			
								Open 130807 GOUDY115	115	200680 LAUREL L	-0.85098		-0.00885	36.6	154.9			
			7045	-13360.9	-5488.5		L: Interface 63 PJMW2C		516.3		0.0	0.03864		0.06705	360.3	-535.7		
								C:ETHS/NW	649									
								Open 130763 HILSD230	230	200675 E.TWANDA	0.80840		-0.01768	113.5	349.7			

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130836 N.WAV115	115	200676	E.SAYRE	0.83286	-0.00790		39.9	145.5
			7058	-9264.9	-1392.5		L: Interface 63 PJMW2C	Open 130807 GOUDY115	115	200680	LAUREL L	0.85098	-0.00885		36.6	154.9
										462.8	0.0	0.04995		0.06705	360.3	-261.0
								C:SER:ETH	607							
								Open 130763 HILSD230	230	200675	E.TWANDA	0.66730	-0.01768		113.5	277.3
			7059	-9264.9	-1392.5		L: Interface 62 C2PJMW	Open 130836 N.WAV115	115	200676	E.SAYRE	0.67167	-0.00790		39.9	113.1
										-462.8	0.0	-0.04995		-0.06705	-360.3	261.0
								C:SER:ETH	607							
								Open 130763 HILSD230	230	200675	E.TWANDA	-0.66730	-0.01768		113.5	277.3
			7060	-9250.1	-1377.7		L: Interface 63 PJMW2C	Open 130836 N.WAV115	115	200676	E.SAYRE	-0.67167	-0.00790		39.9	113.1
										461.8	0.0	0.04993		0.06705	360.3	-260.0
								C:SER:C39	606							
								Open 409 GROVER	230	200675	E.TWANDA	0.00111	0.00039		-15.5	-19.1
								Open 130763 HILSD230	230	200675	E.TWANDA	0.66889	-0.01768		113.5	277.0
								Open 381 TOWANDA	115	200675	E.TWANDA	0.01713	-0.00156		-52.8	-38.4
			7061	-9250.1	-1377.7		L: Interface 62 C2PJMW	Open 130836 N.WAV115	115	200676	E.SAYRE	0.66724	-0.00790		39.9	113.0
										-461.8	0.0	-0.04993		-0.06705	-360.3	260.0
								C:SER:C39	606							
								Open 409 GROVER	230	200675	E.TWANDA	-0.00111	0.00039		-15.5	-19.1
								Open 130763 HILSD230	230	200675	E.TWANDA	-0.66889	-0.01768		113.5	277.0
								Open 381 TOWANDA	115	200675	E.TWANDA	-0.01713	-0.00156		-52.8	-38.4
			7062	-8922.5	-1050.1		L: Interface 52 PJMEast-G	Open 130836 N.WAV115	115	200676	E.SAYRE	-0.66724	-0.00790		39.9	113.0
										-273.2	0.0	-0.03062		0.00000	0.1	0.1
								C:SIN:280	679							
								Open 126262 BUCHANAN N	345	126267	E VIEW 2N	-0.19888	0.13466		1136.0	-65.5
								Open 126267 E VIEW 2N	345	126298	SPRBROOK	-0.02430	0.13766		934.2	-294.1
								Open 126267 E VIEW 2N	345	126378	EASTVIEW	-0.38164	0.00000		1.9	1.9
			7063	-8922.5	-1050.1		L: Interface 51 G-PJMEast	Open 126262 BUCHANAN N	345	126360	BUCHNTA5	-0.17497	0.00285		137.1	111.7
										273.2	0.0	0.03062		0.00000	-0.1	-0.1
								C:SIN:280	679							
								Open 126262 BUCHANAN N	345	126267	E VIEW 2N	0.19888	0.13466		1136.0	-65.5
								Open 126267 E VIEW 2N	345	126298	SPRBROOK	0.02430	0.13766		934.2	-294.1
								Open 126267 E VIEW 2N	345	126378	EASTVIEW	0.38164	0.00000		1.9	1.9
			7064	-8423.6	-551.2		L: Interface 62 C2PJMW	Open 126262 BUCHANAN N	345	126360	BUCHNTA5	0.17497	0.00285		137.1	111.7
										-441.8	0.0	-0.05245		-0.06705	-360.3	204.6
								C:ETHS/LI	650							
								Open 130763 HILSD230	230	200675	E.TWANDA	-0.52480	-0.01768		113.5	262.4
			7065	-8423.6	-551.2		L: Interface 63 PJMW2C	Open 130807 GOUDY115	115	200680	LAUREL L	-0.60167	-0.00885		36.6	111.2
										441.8	0.0	0.05245		0.06705	360.3	-204.6
								C:ETHS/LI	650							
								Open 130763 HILSD230	230	200675	E.TWANDA	0.52480	-0.01768		113.5	262.4
			7066	-7926.6	-54.2		L: Interface 63 PJMW2C	Open 130807 GOUDY115	115	200680	LAUREL L	0.60167	-0.00885		36.6	111.2
										531.5	0.0	0.06705		0.06705	360.3	-171.3
								C:GEN:9 M	562							
			7067	-7926.6	-54.2		L: Interface 62 C2PJMW	Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
										-531.5	0.0	-0.06705		-0.06705	-360.3	171.3
								C:GEN:9 M	562							
			7068	-7646.7	225.7		L: Interface 63 PJMW2C	Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7	MW dispatch					
										531.0	0.0	0.06944		0.06705	360.3	-152.5
								C:HQ-NY-7	777							
								Open 147827 MARCY7NA								
								Open 147828 MASS 7NA								
								Open 147827 MARCY765	765	147833	MARCY T1	0.04110	0.03100		624.3	387.2
								Open 147827 MARCY765	765	147833	MARCY T1	0.04110	0.02695		543.3	337.2
								Open 156 MCY765NA								
								Open 147838 MASS230B	230	147839	MOSES E	0.00000	-0.02898		10.7	232.3
								Open 147828 MASS 7NA								
								Open 147837 MASS230A	230	147839	MOSES E	-0.11493	0.00000		18.8	18.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation	by100.0 percent dispatch						
								Set bus 181319 CHAT G3	120 load	to357.0 MW dispatch						
								Decrease bus 180002 BEA-DL	13.8 generation	by100.0 percent dispatch						
								Set bus 181419 CHAT G4	120 load	to357.0 MW dispatch						
			7069	-7646.7	225.7		L: Interface 62 C2PJM		-531.0	0.0	-0.06944			-0.06705	-360.3	152.5
								C:HQ-NY-7	777							
								Open 147827 MARCY7	NA							
								Open 147828 MASS 7	NA							
								Open 147827 MARCY765	765 147833 MARCY T1	-0.04110	0.03100	624.3	387.2			
								Open 147827 MARCY765	765 147833 MARCY T1	-0.04110	0.02695	543.3	337.2			
								Open 156 MCY765	NA							
								Open 147838 MASS230B	230 147839 MOSES E	0.00000	-0.02898	10.7	232.3			
								Open 147828 MASS 7	NA							
								Open 147837 MASS230A	230 147839 MOSES E	0.11493	0.00000	18.8	18.8			
								Open 147828 MASS 7	NA							
								Open 158 MS765S	NA							
								Open 157 MS765S	NA							
								Decrease bus 180001 BEA-DLX	13.8 generation	by100.0 percent dispatch						
								Set bus 181319 CHAT G3	120 load	to357.0 MW dispatch						
								Decrease bus 180002 BEA-DL	13.8 generation	by100.0 percent dispatch						
								Set bus 181419 CHAT G4	120 load	to357.0 MW dispatch						
			7070	-7372.9	499.5		L: Interface 62 C2PJM		-455.8	0.0	-0.06182			-0.06705	-360.3	134.1
								C:SER:HC-	601							
								Open 135398 SW345	345 200769 HOMER CY	0.23846	0.01771	-379.1	-509.7			
								Open 135277 FALCONER	115 200579 WARREN	0.14049	0.00721	-36.4	-89.6			
			7071	-7372.9	499.5		L: Interface 63 PJMW2C		455.8	0.0	0.06182			0.06705	360.3	-134.1
								C:SER:HC-	601							
								Open 135398 SW345	345 200769 HOMER CY	-0.23846	0.01771	-379.1	-509.7			
								Open 135277 FALCONER	115 200579 WARREN	-0.14049	0.00721	-36.4	-89.6			
			7072	-7112.5	759.9		L: Interface 63 PJMW2C		468.0	0.0	0.06580			0.06705	360.3	-116.7
								C:GEN:FII	560							
								Open 136155 SCRIBA	345 147830 JA FITZP	-0.01847	0.06771	-61.1	-542.7			
								Open 137200 EDIC	345 147830 JA FITZP	-0.15063	0.00000	43.4	43.4			
								Remove unit 1 from bus 147797 JAFITZ1G	24.0 887.7 MW dispatch							
			7073	-7112.5	759.9		L: Interface 62 C2PJM		-468.0	0.0	-0.06580			-0.06705	-360.3	116.7
								C:GEN:FII	560							
								Open 136155 SCRIBA	345 147830 JA FITZP	0.01847	0.06771	-61.1	-542.7			
								Open 137200 EDIC	345 147830 JA FITZP	0.15063	0.00000	43.4	43.4			
								Remove unit 1 from bus 147797 JAFITZ1G	24.0 887.7 MW dispatch							
			7074	-7071.6	800.8		L: Interface 63 PJMW2C		474.2	0.0	0.06705			0.06705	360.3	-113.9
								C:GEN:SEA	576							
								Open 100508 SANDB115	115 100509 SB RCTOR	0.00001	0.00000	-0.1	-0.1			
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			7075	-7071.6	800.8*		L: Interface 63 PJMW2C		474.2	0.0	0.06705			0.06705	360.3	-113.9
								C:GEN:SEA	574							
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			7076	-7071.6	800.8		L: Interface 62 C2PJM		-474.2	0.0	-0.06705			-0.06705	-360.3	113.9
								C:GEN:SEA	576							
								Open 100508 SANDB115	115 100509 SB RCTOR	-0.00001	0.00000	-0.1	-0.1			
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			7077	-7071.6	800.8*		L: Interface 62 C2PJM		-474.2	0.0	-0.06705			-0.06705	-360.3	113.9
								C:GEN:SEA	574							
								Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW dispatch							
			7174	-5733	2139.4		L: Interface 51 G-PJMEast		-240.2	0.0	-0.04190			0.00000	-0.1	-0.1
								C:SIN:44C	684							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			7175	-5733	2139.4		L: Interface 52 PJMEast-G	Open 125001	ROCK TAV	345	126297	RAMAPO	-0.21453	0.19532	1119.3	-0.4
								C: SIN:440	684	240.2	0.0	0.04190		0.00000	0.1	0.1
			7176	-5733	2139.4		L: Interface 52 PJMEast-G	Open 125001	ROCK TAV	345	126297	RAMAPO	0.21453	0.19532	1119.3	-0.4
								C:125001	7	240.2	0.0	0.04190		0.00000	0.1	0.1
			7177	-5733	2139.4		L: Interface 51 G-PJMEast	Open 125001	ROCK TAV	345	126297	RAMAPO	0.21453	0.19532	1119.3	-0.4
								C:125001	7	-240.2	0.0	-0.04190		0.00000	-0.1	-0.1
			10590	-4472.7	3399.7		L: Interface 55 PJME-NYEnoRE	Open 125001	ROCK TAV	345	126297	RAMAPO	-0.21453	0.19532	1119.3	-0.4
								C:130753	200	1453.7	1287.0	0.03726		0.00000	1299.9	1299.9
			10591	-4472.7	3399.7		L: Interface 56 NYE-PJMENoRE	Open 130753	FRASR345	345	130755	OAKDL345	-0.26927	-0.13837	-570.9	47.9
								C:130753	200	-1453.7	-1287.0	-0.03726		0.00000	-1299.9	-1299.9
			10592	-4100.6	3771.8		L: Interface 52 PJMEast-G	Open 130753	FRASR345	345	130755	OAKDL345	0.26927	-0.13837	-570.9	47.9
								C: SIN:230	677	-167.2	0.0	-0.04077		0.00000	0.1	0.1
			10593	-4100.6	3771.8		L: Interface 51 G-PJMEast	Open 126263	BUCHANAN S	345	126290	LADENTWN	0.26721	-0.15078	-540.0	78.3
								C: SIN:230	677	167.2	0.0	0.04077		0.00000	-0.1	-0.1
			10594	-3579.1	4293.3		L: Interface 51 G-PJMEast	Open 126262	BUCHANAN N	345	126360	BUCHNTA5	-0.16750	0.00285	137.1	125.4
								C:126263	86	138.9	0.0	0.03880		0.00000	-0.1	-0.1
			10595	-3579.1	4293.3		L: Interface 52 PJMEast-G	Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.25731	-0.15078	-540.0	-0.4
								C:126263	86	-138.9	0.0	-0.03880		0.00000	0.1	0.1
			10596	-2682.5	5189.9		L: Interface 52 PJMEast-G	Open 126263	BUCHANAN S	345	126290	LADENTWN	0.25731	-0.15078	-540.0	-0.4
								C:126298	132	-136.1	0.0	-0.05073		0.00000	0.1	0.1
			10597	-2682.5	5189.9		L: Interface 52 PJMEast-G	Open 126298	SPRBROOK	345	126518	REACM52	-0.20617	0.24606	660.5	0.4
								C:126298	131	-136.1	0.0	-0.05073		0.00000	0.1	0.1
			10598	-2682.5	5189.9		L: Interface 51 G-PJMEast	Open 126298	SPRBROOK	345	126517	REACM51	-0.20617	0.24606	660.5	0.4
								C:126298	131	136.1	0.0	0.05073		0.00000	-0.1	-0.1
			10599	-2682.5	5189.9		L: Interface 51 G-PJMEast	Open 126298	SPRBROOK	345	126517	REACM51	0.20617	0.24606	660.5	0.4
								C:126298	132	136.1	0.0	0.05073		0.00000	-0.1	-0.1
			10600	-2669	5203.4		L: Interface 51 G-PJMEast	Open 126304	W 49 ST	345	126517	REACM51	-0.20617	-0.24606	-657.2	-0.4
								C:126304	365	135.4	0.0	0.05073		0.00000	-0.1	-0.1
			10601	-2669	5203.4		L: Interface 52 PJMEast-G	Open 126304	W 49 ST	345	126517	REACM51	-0.20617	-0.24606	-657.2	-0.4
								C:126304	365	-135.4	0.0	-0.05073		0.00000	0.1	0.1
			10602	-2669	5203.4		L: Interface 52 PJMEast-G	Open 126304	W 49 ST	345	126517	REACM51	0.20617	-0.24606	-657.2	-0.4
								C:126304	366	-135.4	0.0	-0.05073		0.00000	0.1	0.1
			10603	-2669	5203.4		L: Interface 51 G-PJMEast	Open 126304	W 49 ST	345	126518	REACM52	0.20617	-0.24606	-657.2	-0.4
								C:126304	366	135.4	0.0	0.05073		0.00000	-0.1	-0.1
			10604	-2554.7	5317.7	*	L: Interface 52 PJMEast-G	Open 126304	W 49 ST	345	126518	REACM52	-0.20617	-0.24606	-657.2	-0.4
								C:126266	96	-126.4	0.0	-0.04946		0.00000	0.1	0.1
			10605	-2554.7	5317.7	*	L: Interface 51 G-PJMEast	Open 126266	DUNWODIE	345	126601	REAC72	-0.19547	0.25304	646.9	0.5
								C:126266	96	126.4	0.0	0.04946		0.00000	-0.1	-0.1







From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130757 WATRC345	345	200769	HOMER CY		-0.22550	-0.03262	-550.2	-594.0
			10674	1344.9	9217.3		L: Interface 14 Leeds-PV	Open 130836 N.WAV115	115	200676	E.SAYRE	0.33372	-0.00790	39.9	29.3	
								C:125000	1	2907.1	3450.0	0.40371		0.34388	2528.6	2991.1
			10675	1348.7	9221.1		L: Interface 49 C-PJMCentral	Open 125000 HURLEY 3	345	125002	ROSETON	0.57253	0.10449	660.9	801.5	
								C:SER:HC-	602	56.3	0.0	-0.04171		-0.03444	189.9	143.5
								Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
			NA	1348.7	9221.1	R	L: Interface 50 PJMCentral-C	Open 135277 FALCONER	115	200579	WARREN	0.06948	0.00721	-36.4	-26.7	
								C:SER:HC-	602	-56.3	0.0	0.04171		0.03444	-189.9	-143.5
								Open 130757 WATRC345	345	200769	HOMER CY		-0.23837	-0.03262	-550.2	-594.2
			NA	1348.7	9221.1	R	L: Interface 49 C-PJMCentral	Open 135277 FALCONER	115	200579	WARREN	-0.06948	0.00721	-36.4	-26.7	
								C:SER:HC-	602	56.3	0.0	-0.04171		-0.03444	189.9	143.5
								Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
			10676	1348.7	9221.1		L: Interface 50 PJMCentral-C	Open 135277 FALCONER	115	200579	WARREN	0.06948	0.00721	-36.4	-26.7	
								C:SER:HC-	602	-56.3	0.0	0.04171		0.03444	-189.9	-143.5
								Open 130757 WATRC345	345	200769	HOMER CY		-0.23837	-0.03262	-550.2	-594.2
			10679	1386	9258.4		L: Interface 11 DUN-SOUTH OP	Open 135277 FALCONER	115	200579	WARREN	-0.06948	0.00721	-36.4	-26.7	
								C:SER:HC-	602	4870.0	6256.0	1.00000				
			10680	1394.9	9267.3		L:126600 REAC71 345 126641 MOTT HAVEN	Base Case								
								C:126298	132	775.9	1196.0	0.30120		0.25484	651.4	1006.9
			10681	1394.9	9267.3		L:126600 REAC71 345 126641 MOTT HAVEN	Open 126298 SPRBROOK	345	126518	REACM52	0.18842	0.24606	660.5	1003.7	
								C:126298	131	775.9	1196.0	0.30120		0.25484	651.4	1006.9
			10682	1395	9267.4		L:126266 DUNWODIE 345 126600 REAC71	Open 126298 SPRBROOK	345	126517	REACM51	0.18842	0.24606	660.5	1003.7	
								C:126298	131	775.8	1196.0	0.30120		0.25484	651.4	1006.9
			10683	1395	9267.4		L:126266 DUNWODIE 345 126600 REAC71	Open 126298 SPRBROOK	345	126517	REACM51	0.18842	0.24606	660.5	1003.8	
								C:126298	132	775.8	1196.0	0.30120		0.25484	651.4	1006.9
			10684	1397	9269.4		L:126600 REAC71 345 126641 MOTT HAVEN	Open 126298 SPRBROOK	345	126518	REACM52	0.18842	0.24606	660.5	1003.8	
								C:126304	365	775.2	1196.0	0.30120		0.25484	651.4	1007.4
			10685	1397	9269.4		L:126600 REAC71 345 126641 MOTT HAVEN	Open 126304 W 49 ST	345	126517	REACM51	-0.18842	-0.24606	-657.2	-1000.9	
								C:126304	366	775.2	1196.0	0.30120		0.25484	651.4	1007.4
			10686	1397.1	9269.5		L:126266 DUNWODIE 345 126600 REAC71	Open 126304 W 49 ST	345	126518	REACM52	-0.18842	-0.24606	-657.2	-1000.9	
								C:126304	366	775.2	1196.0	0.30120		0.25484	651.4	1007.4
			10687	1397.1	9269.5		L:126266 DUNWODIE 345 126600 REAC71	Open 126304 W 49 ST	345	126518	REACM52	-0.18842	-0.24606	-657.2	-1001.0	
								C:126304	365	775.2	1196.0	0.30120		0.25484	651.4	1007.4
			10688	1403.4	9275.8		L: Interface 49 C-PJMCentral	Open 126304 W 49 ST	345	126517	REACM51	-0.18842	-0.24606	-657.2	-1001.0	
								C:130757	373	59.2	0.0	-0.04219		-0.03444	189.9	141.6
			10689	1403.4	9275.8		L: Interface 50 PJMCentral-C	Open 130757 WATRC345	345	200769	HOMER CY	0.23761	-0.03262	-550.2	-596.0	
								C:130757	373	-59.2	0.0	0.04219		0.03444	-189.9	-141.6
			NA	1403.4	9275.8	R	L: Interface 50 PJMCentral-C	Open 130757 WATRC345	345	200769	HOMER CY	-0.23761	-0.03262	-550.2	-596.0	
								C:130757	373	-59.2	0.0	0.04219		0.03444	-189.9	-141.6
			NA	1403.4	9275.8	R	L: Interface 49 C-PJMCentral	Open 130757 WATRC345	345	200769	HOMER CY	-0.23761	-0.03262	-550.2	-596.0	
								C:130757	373	59.2	0.0	-0.04219		-0.03444	189.9	141.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			10692	1422.8	9295.2		L:126266 DUNWODIE 345 126601 REAC72	345 SR		770.5	1196.0	0.29907		0.23761	-0.03262	-550.2	-596.0
								C:126298	131						0.25304	646.9	1006.9
								Open 126298 SPRBROOK	345	126517	REACM51	0.18709			0.24606	660.5	1010.6
			10693	1422.8	9295.2		L:126266 DUNWODIE 345 126601 REAC72	345 SR		770.5	1196.0	0.29907			0.25304	646.9	1006.9
								C:126298	132								
								Open 126298 SPRBROOK	345	126518	REACM52	0.18709			0.24606	660.5	1010.6
			10694	1422.8	9295.2		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		770.5	1196.0	0.29907			0.25304	646.9	1006.9
								C:126298	131								
								Open 126298 SPRBROOK	345	126517	REACM51	0.18709			0.24606	660.5	1010.6
			10695	1422.8	9295.2		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		770.5	1196.0	0.29907			0.25304	646.9	1006.9
								C:126298	132								
								Open 126298 SPRBROOK	345	126518	REACM52	0.18709			0.24606	660.5	1010.6
			10696	1424.9	9297.3		L:126266 DUNWODIE 345 126601 REAC72	345 SR		769.9	1196.0	0.29907			0.25304	646.9	1007.5
								C:126304	365								
								Open 126304 W 49 ST	345	126517	REACM51	-0.18709		-0.24606	-657.2	-1007.8	
			10697	1424.9	9297.3		L:126266 DUNWODIE 345 126601 REAC72	345 SR		769.9	1196.0	0.29907			0.25304	646.9	1007.5
								C:126304	366								
								Open 126304 W 49 ST	345	126518	REACM52	-0.18709		-0.24606	-657.2	-1007.8	
			10698	1424.9	9297.3		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		769.8	1196.0	0.29907			0.25304	646.9	1007.5
								C:126304	366								
								Open 126304 W 49 ST	345	126518	REACM52	-0.18709		-0.24606	-657.2	-1007.8	
			10699	1424.9	9297.3		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		769.8	1196.0	0.29907			0.25304	646.9	1007.5
								C:126304	365								
								Open 126304 W 49 ST	345	126517	REACM51	-0.18709		-0.24606	-657.2	-1007.8	
			10700	1436.7	9309.1		L:126385 E179 ST 138 126445 HG 4	138 1		94.8	179.0	0.05864					
								Base Case									
			10701	1438.7	9311.1		L:126385 E179 ST 138 126442 HG 1	138 1		94.6	179.0	0.05865					
								Base Case									
			10702	1440.3	9312.7		L:130750 COOPC345 345 130753 FRASR345	345 1		-997.0	-1207.0	-0.14577					
								Base Case									
			10703	1474.2	9346.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1433.9	-1725.0	-0.19749			-0.17565	-1284.4	-1543.4
								C:130750	192								
								Open 130750 COOPC345	345	130753	FRASR345	0.14988		-0.14577	-997.0	-1211.9	
			10704	1483.7	9356.1		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-393.2	-783.0	-0.26269					
								Base Case									
			10705	1495.9	9368.3		L:126480 RAINEY8E 138 126561 8E DUM	138 1		80.9	-342.0	-0.28273			-0.28273	98.6	-324.4
								C:BUS:TRH	632								
								Open 126466 SECT 11	138	126470	38X01 T	-0.03659		0.00000	119.8	119.8	
								Open 126466 SECT 11	138	126471	38X02 T	-0.03659		0.00000	119.8	119.8	
								Open 126462 PARK TNA									
								Open 126467 SECT 12	138	126472	38X03 T	-0.03659		0.00000	124.3	124.3	
								Open 126467 SECT 12	138	126473	38X04 T	-0.03659		0.00000	117.5	117.5	
								Open 126463 PARK TNA									
								Open 126301 TREMONNA									
								Open 126301 TREMONNA									
								Open 126298 SPRBROOK	345	126301	TREMONT	0.00397		0.00000	-0.8	-0.8	
			10706	1495.9	9368.3		L:126295 RAINEY 345 126561 8E DUM	138 8		-80.9	342.0	0.28273			0.28273	-98.6	324.4
								C:BUS:TRH	632								
								Open 126466 SECT 11	138	126470	38X01 T	0.03659		0.00000	119.8	119.8	
								Open 126466 SECT 11	138	126471	38X02 T	0.03659		0.00000	119.8	119.8	
								Open 126462 PARK TNA									
								Open 126467 SECT 12	138	126472	38X03 T	0.03659		0.00000	124.3	124.3	
								Open 126467 SECT 12	138	126473	38X04 T	0.03659		0.00000	117.5	117.5	
								Open 126463 PARK TNA									
								Open 126301 TREMONNA									
								Open 126301 TREMONNA									
								Open 126298 SPRBROOK	345	126301	TREMONT	-0.00397		0.00000	-0.8	-0.8	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10707	1496	9368.4		L:126480 RAINEY8E 138 126561 8E DUM	138 1		81.0	-342.0	-0.28273		-0.28273	98.6	-324.4
								C:126298	363							
								Open 126298	SPRBROOK	345	126301	TREMONT	-0.03659	0.00000	480.6	480.6
			10708	1496	9368.4		L:126295 RAINEY 345 126561 8E DUM	138 8		-81.0	342.0	0.28273		0.28273	-98.6	324.4
								C:126298	363							
								Open 126298	SPRBROOK	345	126301	TREMONT	0.03659	0.00000	480.6	480.6
			10709	1498.1	9370.5		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-81.6	342.0	0.28273		0.28273	-99.2	324.4
								C:BUS:TRH	632							
								Open 126466	SECT 11	138	126470	38X01 T	0.03659	0.00000	119.8	119.8
								Open 126466	SECT 11	138	126471	38X02 T	0.03659	0.00000	119.8	119.8
								Open 126462	PARK T	NA						
								Open 126467	SECT 12	138	126472	38X03 T	0.03659	0.00000	124.3	124.3
								Open 126467	SECT 12	138	126473	38X04 T	0.03659	0.00000	117.5	117.5
								Open 126463	PARK T	NA						
								Open 126301	TREMONT	NA						
								Open 126301	TREMONT	NA						
								Open 126298	SPRBROOK	345	126301	TREMONT	-0.00397	0.00000	-0.8	-0.8
			10710	1498.2	9370.6		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-81.6	342.0	0.28273		0.28273	-99.2	324.4
								C:126298	363							
								Open 126298	SPRBROOK	345	126301	TREMONT	0.03659	0.00000	480.6	480.6
			10711	1500.7	9373.1		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1428.7	-1725.0	-0.19741		-0.16823	-1244.2	-1496.7
								C:125000	1							
								Open 125000	HURLEY 3	345	125002	ROSETON	-0.27917	0.10449	660.9	817.8
			10712	1501.3	9373.7		L:126480 RAINEY8E 138 126561 8E DUM	138 1		82.4	-342.0	-0.28273		-0.28273	98.6	-325.9
								C:SPRN-AC	779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	-0.03496	0.00000	461.4	461.4
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
								Open 126781	SCK-PARE	138	126847	ACADEMY	0.03895	0.00000	0.7	0.7
			10713	1501.3	9373.7		L:126295 RAINEY 345 126561 8E DUM	138 8		-82.5	342.0	0.28273		0.28273	-98.6	325.9
								C:SPRN-AC	779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	0.03496	0.00000	461.4	461.4
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
								Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03895	0.00000	0.7	0.7
			10714	1503.5	9375.9		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-83.1	342.0	0.28273		0.28273	-99.2	325.9
								C:SPRN-AC	779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	0.03496	0.00000	461.4	461.4
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
								Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03895	0.00000	0.7	0.7
			10715	1508.1	9380.5		L:126481 RAINEY8W 138 126562 8W DUM	138 1		36.6	-372.0	-0.27094		-0.27094	53.7	-354.9
								C:BUS:TRH	632							
								Open 126466	SECT 11	138	126470	38X01 T	-0.03561	0.00000	119.8	119.8
								Open 126466	SECT 11	138	126471	38X02 T	-0.03561	0.00000	119.8	119.8
								Open 126462	PARK T	NA						
								Open 126467	SECT 12	138	126472	38X03 T	-0.03561	0.00000	124.3	124.3
								Open 126467	SECT 12	138	126473	38X04 T	-0.03561	0.00000	117.5	117.5
								Open 126463	PARK T	NA						
								Open 126301	TREMONT	NA						
								Open 126301	TREMONT	NA						
								Open 126298	SPRBROOK	345	126301	TREMONT	0.00386	0.00000	-0.8	-0.8
			10716	1508.1	9380.5		L:126295 RAINEY 345 126562 8W DUM	138 8		-36.6	372.0	0.27094		0.27094	-53.7	354.9
								C:BUS:TRH	632							
								Open 126466	SECT 11	138	126470	38X01 T	0.03561	0.00000	119.8	119.8
								Open 126466	SECT 11	138	126471	38X02 T	0.03561	0.00000	119.8	119.8
								Open 126462	PARK T	NA						
								Open 126467	SECT 12	138	126472	38X03 T	0.03561	0.00000	124.3	124.3
								Open 126467	SECT 12	138	126473	38X04 T	0.03561	0.00000	117.5	117.5
								Open 126463	PARK T	NA						
								Open 126301	TREMONT	NA						

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126301 TREMON	NA							
			10717	1508.2	9380.6		L:126481 RAINEY8W 138 126562 8W DUM	Open 126298 SPRBROOK	345	126301 TREMONT	-0.00386	0.00000	-0.8	-0.8		
								138 1		36.6	-372.0	0.27094	-0.27094	53.7	-354.9	
								C:126298	363							
			10718	1508.2	9380.6		L:126295 RAINEY 345 126562 8W DUM	Open 126298 SPRBROOK	345	126301 TREMONT	-0.03561	0.00000	480.6	480.6		
								138 8		-36.6	372.0	0.27094	0.27094	-53.7	354.9	
								C:126298	363							
			10719	1508.4	9380.8		L:126481 RAINEY8W 138 126507 VERNON-W	Open 126298 SPRBROOK	345	126301 TREMONT	0.03561	0.00000	480.6	480.6		
								138 1		-36.7	372.0	0.27094	0.27094	-53.8	354.9	
								C:BUS:TR	632							
								Open 126466 SECT 11	138	126470 38X01 T	0.03561	0.00000	119.8	119.8		
								Open 126466 SECT 11	138	126471 38X02 T	0.03561	0.00000	119.8	119.8		
								Open 126462 PARK T	NA							
								Open 126467 SECT 12	138	126472 38X03 T	0.03561	0.00000	124.3	124.3		
								Open 126467 SECT 12	138	126473 38X04 T	0.03561	0.00000	117.5	117.5		
								Open 126463 PARK T	NA							
								Open 126301 TREMON	NA							
								Open 126301 TREMON	NA							
								Open 126298 SPRBROOK	345	126301 TREMONT	-0.00386	0.00000	-0.8	-0.8		
			10720	1508.5	9380.9		L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-36.7	372.0	0.27094	0.27094	-53.8	354.9	
								C:126298	363							
								Open 126298 SPRBROOK	345	126301 TREMONT	0.03561	0.00000	480.6	480.6		
			10721	1509.5	9381.9		L:126480 RAINEY8E 138 126561 8E DUM	138 1		85.9	-342.0	-0.28349	-0.28273	98.6	-328.2	
								C:BUS:GOW	625							
								Open 126287 GOWANUSS	345	126591 GOWANUS 4	0.00477	-0.05299	0.0	-80.0		
								Open 126287 GOWANUSS	345	126429 GOWNUS2T	-0.14837	0.00000	100.0	100.0		
								Open 126287 GOWANUSS	345	126622 GATE 3	0.00000	0.00000	45.4	45.4		
								Open 126287 GOWANUSS	345	126623 GATE 4	0.00000	0.00000	41.4	41.4		
								Open 126285 GOTHLS S	345	126287 GOWANUSS	0.00943	-0.05339	444.1	363.5		
								Open 126286 GOWANUSN	345	126287 GOWANUSS	-0.00772	0.00000	257.3	257.3		
			10722	1509.5	9381.9		L:126295 RAINEY 345 126561 8E DUM	138 8		-85.9	342.0	0.28349	0.28273	-98.6	328.2	
								C:BUS:GOW	625							
								Open 126287 GOWANUSS	345	126591 GOWANUS 4	-0.00477	-0.05299	0.0	-80.0		
								Open 126287 GOWANUSS	345	126429 GOWNUS2T	0.14837	0.00000	100.0	100.0		
								Open 126287 GOWANUSS	345	126622 GATE 3	0.00000	0.00000	45.4	45.4		
								Open 126287 GOWANUSS	345	126623 GATE 4	0.00000	0.00000	41.4	41.4		
								Open 126285 GOTHLS S	345	126287 GOWANUSS	-0.00943	-0.05339	444.1	363.5		
								Open 126286 GOWANUSN	345	126287 GOWANUSS	0.00772	0.00000	257.3	257.3		
			10723	1509.8	9382.2		L:126480 RAINEY8E 138 126561 8E DUM	138 1		86.0	-342.0	-0.28348	-0.28273	98.6	-328.3	
								C:BUS:GOW	624							
								Open 126286 GOWANUSN	345	126287 GOWANUSS	0.00940	0.00040	0.0	0.6		
								Open 126286 GOWANUSN	345	126590 GOWANUS 4	0.01418	-0.05295	0.0	-79.9		
								Open 126286 GOWANUSN	345	126427 GOWNUS1T	-0.13851	0.00000	100.0	100.0		
								Open 126286 GOWANUSN	345	126620 GATE 1	0.00940	0.00000	45.4	45.4		
								Open 126286 GOWANUSN	345	126621 GATE 2	0.00940	0.00000	45.4	45.4		
								Open 126283 GOTHLS N	345	126286 GOWANUSN	0.00169	0.00000	253.3	253.3		
			10724	1509.8	9382.2		L:126295 RAINEY 345 126561 8E DUM	138 8		-86.0	342.0	0.28348	0.28273	-98.6	328.3	
								C:BUS:GOW	624							
								Open 126286 GOWANUSN	345	126287 GOWANUSS	-0.00940	0.00040	0.0	0.6		
								Open 126286 GOWANUSN	345	126590 GOWANUS 4	-0.01418	-0.05295	0.0	-79.9		
								Open 126286 GOWANUSN	345	126427 GOWNUS1T	0.13851	0.00000	100.0	100.0		
								Open 126286 GOWANUSN	345	126620 GATE 1	-0.00940	0.00000	45.4	45.4		
								Open 126286 GOWANUSN	345	126621 GATE 2	-0.00940	0.00000	45.4	45.4		
								Open 126283 GOTHLS N	345	126286 GOWANUSN	-0.00169	0.00000	253.3	253.3		
			10725	1511.7	9384.1		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-86.5	342.0	0.28349	0.28273	-99.2	328.2	
								C:BUS:GOW	625							
								Open 126287 GOWANUSS	345	126591 GOWANUS 4	-0.00477	-0.05299	0.0	-80.1		
								Open 126287 GOWANUSS	345	126429 GOWNUS2T	0.14837	0.00000	100.0	100.0		



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4	
								Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4	
								Open 126285	GOTHL S	345	126287	GOWANUSS	-0.00943	-0.05339	444.1	363.4	
								Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00772	0.00000	257.3	257.3	
			10726	1512	9384.4		L:126480 RAINEY8E 138 126506 VERNON-E	138	1		-86.6	342.0	0.28348		0.28273	-99.2	328.3
								C:BUS:GOW		624							
								Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00940	0.00040	0.0	0.6	
								Open 126286	GOWANUSN	345	126590	GOWANUS 4	-0.01418	-0.05295	0.0	-80.1	
								Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13851	0.00000	100.0	100.0	
								Open 126286	GOWANUSN	345	126620	GATE 1	-0.00940	0.00000	45.4	45.4	
								Open 126286	GOWANUSN	345	126621	GATE 2	-0.00940	0.00000	45.4	45.4	
								Open 126283	GOTHL S N	345	126286	GOWANUSN	-0.00169	0.00000	253.3	253.3	
			10727	1513.5	9385.9		L:126481 RAINEY8W 138 126562 8W DUM	138	1		38.1	-372.0	-0.27094		-0.27094	53.7	-356.3
								C:SPRN-AC		779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	-0.03402	0.00000	461.4	461.4	
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4	
								Open 126781	SCK-PARE	138	126847	ACADEMY	0.03790	0.00000	0.7	0.7	
			10728	1513.5	9385.9		L:126295 RAINEY 345 126562 8W DUM	138	8		-38.1	372.0	0.27094		0.27094	-53.7	356.3
								C:SPRN-AC		779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	0.03402	0.00000	461.4	461.4	
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4	
								Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03790	0.00000	0.7	0.7	
			10729	1513.8	9386.2		L:126481 RAINEY8W 138 126507 VERNON-W	138	1		-38.2	372.0	0.27094		0.27094	-53.8	356.3
								C:SPRN-AC		779							
								Open 126298	SPRBROOK	345	126847	ACADEMY	0.03402	0.00000	461.4	461.4	
								Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4	
								Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03790	0.00000	0.7	0.7	
			10730	1521.7	9394.1		L:126481 RAINEY8W 138 126562 8W DUM	138	1		41.4	-372.0	-0.27168		-0.27094	53.7	-358.5
								C:BUS:GOW		625							
								Open 126287	GOWANUSS	345	126591	GOWANUS 4	0.00466	-0.05299	0.0	-80.6	
								Open 126287	GOWANUSS	345	126429	GOWNUS2T	-0.14499	0.00000	100.0	100.0	
								Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4	
								Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4	
								Open 126285	GOTHL S	345	126287	GOWANUSS	0.00921	-0.05339	444.1	362.9	
								Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00750	0.00000	257.3	257.3	
			10731	1521.7	9394.1		L:126295 RAINEY 345 126562 8W DUM	138	8		-41.4	372.0	0.27168		0.27094	-53.7	358.5
								C:BUS:GOW		625							
								Open 126287	GOWANUSS	345	126591	GOWANUS 4	-0.00466	-0.05299	0.0	-80.6	
								Open 126287	GOWANUSS	345	126429	GOWNUS2T	0.14499	0.00000	100.0	100.0	
								Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4	
								Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4	
								Open 126285	GOTHL S	345	126287	GOWANUSS	-0.00921	-0.05339	444.1	362.9	
								Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00750	0.00000	257.3	257.3	
			10732	1521.9	9394.3		L:126481 RAINEY8W 138 126562 8W DUM	138	1		41.5	-372.0	-0.27167		-0.27094	53.7	-358.6
								C:BUS:GOW		624							
								Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00918	0.00040	0.0	0.6	
								Open 126286	GOWANUSN	345	126590	GOWANUS 4	0.01385	-0.05295	0.0	-80.6	
								Open 126286	GOWANUSN	345	126427	GOWNUS1T	-0.13536	0.00000	100.0	100.0	
								Open 126286	GOWANUSN	345	126620	GATE 1	0.00918	0.00000	45.4	45.4	
								Open 126286	GOWANUSN	345	126621	GATE 2	0.00918	0.00000	45.4	45.4	
								Open 126283	GOTHL S N	345	126286	GOWANUSN	0.00169	0.00000	253.3	253.3	
			10733	1521.9	9394.3		L:126295 RAINEY 345 126562 8W DUM	138	8		-41.5	372.0	0.27167		0.27094	-53.7	358.6
								C:BUS:GOW		624							
								Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00918	0.00040	0.0	0.6	
								Open 126286	GOWANUSN	345	126590	GOWANUS 4	-0.01385	-0.05295	0.0	-80.6	
								Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13536	0.00000	100.0	100.0	
								Open 126286	GOWANUSN	345	126620	GATE 1	-0.00918	0.00000	45.4	45.4	
								Open 126286	GOWANUSN	345	126621	GATE 2	-0.00918	0.00000	45.4	45.4	





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126266 DUNWODIE	345	126292	PL VILLE	-0.00087	-0.18551	-1031.1	-1319.1	
			10841	1552.5	9424.9	*	L:126481 RAINEY8W 138 126562 8W DUM	Open 126343 W73 TAP	345	126372	DUN SO	0.01318	-0.00056	305.4	304.5	
								138 1			-372.0	-0.27141	-0.27094	53.7	-366.9	
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	0.00144	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
			10843	1552.5	9424.9	*	L:126295 RAINEY 345 126562 8W DUM	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								138 8			-49.4	372.0	0.27141	0.27094	-53.7	366.9
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
			10849	1552.6	9425		L:126481 RAINEY8W 138 126507 VERNON-W	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								138 1			-48.9	372.0	0.27109	0.27094	-53.8	366.8
								C:SER:W89	585							
								Open 126266 DUNWODIE	345	126292	PL VILLE	-0.00087	-0.18551	-1031.1	-1319.2	
			10858	1552.8	9425.2	*	L:126481 RAINEY8W 138 126507 VERNON-W	Open 126343 W73 TAP	345	126372	DUN SO	0.01318	-0.00056	305.4	304.5	
								138 1			-49.5	372.0	0.27141	0.27094	-53.8	366.9
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07539	786.5	903.6	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
			21266	1629.1	9501.5		L: Interface 14 Leeds-PV	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
								C:130750	192					0.34388	2528.6	3088.9
								Open 130750 COOPC345	345	130753	FRASR345	-0.29252	-0.14577	-997.0	-1234.5	
			21301	1656.9	9529.3		L:137451 LEEDS 3 345 137452 N.SCOT77	345 1			-1355.3	-1724.0	-0.22253	-0.14253	-867.6	-1103.8
								C:137451	5							
			21304	1675	9547.4		L:137451 LEEDS 3 345 137453 N.SCOT99	Open 137451 LEEDS 3	345	137453	N.SCOT99	0.56507	-0.14158	-863.0	-1097.6	
								C:137451	4					-0.14158	-863.0	-1100.2
								Open 137451 LEEDS 3	345	137452	N.SCOT77	0.56387	-0.14253	-867.6	-1106.4	
			21305	1690.3	9562.7		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4			-368.6	-783.0	-0.24518			
								Base Case								
			21306	1734.6	9607		L:146754 MDTN TAP 345 146772 SHOEMTAP	138 1			626.5	746.0	0.06888	0.03745	446.4	511.3
								C:SIN:440	684							
			21307	1734.6	9607		L:146754 MDTN TAP 345 146772 SHOEMTAP	Open 125001 ROCK TAV	345	126297	RAMAPO	0.16093	0.19532	1119.3	1458.2	
								138 1			626.5	746.0	0.06888	0.03745	446.4	511.3
								C:125001	7							
			21308	1788.8	9661.2		L: Interface 50 PJMCentral-C	Open 125001 ROCK TAV	345	126297	RAMAPO	0.16093	0.19532	1119.3	1458.2	
								138 1			-59.5	0.0	0.03325	0.03444	-189.9	-128.3
								C:BUS:WAT	633							
								Open 130757 WATRC345	345	200769	HOMER CY	-0.14483	-0.03262	-550.2	-608.5	
								Open 130757 WATRC345	345	130768	WATRC230	0.20650	-0.02864	262.4	211.1	
								Open 130755 OAKDL345	345	130757	WATRC345	-0.14881	0.00000	22.9	22.9	
			21309	1788.8	9661.2		L: Interface 49 C-PJMCentral	138 1			59.5	0.0	-0.03325	-0.03444	189.9	128.3
								C:BUS:WAT	633							
								Open 130757 WATRC345	345	200769	HOMER CY	0.14483	-0.03262	-550.2	-608.5	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130757 WATRC345	345	130768	WATRC230	-0.20650	-0.02864	262.4	211.1	
			NA	1788.8	9661.2	R	L: Interface 50 PJMCentral-C	Open 130755 OAKDL345	345	130757	WATRC345	0.14881	0.00000	22.9	22.9	
								C:BUS:WAT	633	-59.5	0.0	0.03325	0.03444	-189.9	-128.3	
								Open 130757 WATRC345	345	200769	HOMER CY	-0.14483	-0.03262	-550.2	-608.5	
								Open 130757 WATRC345	345	130768	WATRC230	0.20650	-0.02864	262.4	211.1	
			NA	1788.8	9661.2	R	L: Interface 49 C-PJMCentral	Open 130755 OAKDL345	345	130757	WATRC345	-0.14881	0.00000	22.9	22.9	
								C:BUS:WAT	633	59.5	0.0	-0.03325	-0.03444	189.9	128.3	
								Open 130757 WATRC345	345	200769	HOMER CY	0.14483	-0.03262	-550.2	-608.5	
								Open 130757 WATRC345	345	130768	WATRC230	-0.20650	-0.02864	262.4	211.1	
								Open 130755 OAKDL345	345	130757	WATRC345	0.14881	0.00000	22.9	22.9	
			21312	1789.1	9661.5		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2	-1399.0	-1725.0	-0.18224		-0.17565	-1284.4	-1598.7	
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04371	0.07539	786.5	921.4	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04371	0.07539	786.5	921.4	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	0.04265	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S	NA							
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			21313	1789.1	9661.5		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2	-1399.0	-1725.0	-0.18224		-0.17565	-1284.4	-1598.7	
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04371	0.07539	786.5	921.4	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04371	0.07539	786.5	921.4	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	0.04265	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S	NA							
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			21314	1791.1	9663.5		L:126294 PLTVLLEY 345 137455 ATHENS	345 1	-1386.4	-1725.0	-0.18903		-0.16823	-1244.2	-1545.5	
								C:130750	192							
								Open 130750 COOPC345	345	130753	FRASR345	0.14264	-0.14577	-997.0	-1258.1	
			21321	1846	9718.4		L: Interface 32 F-To-G		3723.9	4643.0	0.49792					
								Base Case								
			21322	1855.9	9728.3		L:146758 CHESTER 138 146773 SGRLF138	138 1	225.8	317.0	0.04913		0.03119	140.4	198.2	
								C:125001	9							
								Open 125001 ROCK TAV	345	146754	MDTN TAP	-0.19956	-0.08992	-428.2	-595.1	
			21323	1895.4	9767.8		L:146758 CHESTER 138 146771 SHOEM138	138 1	-239.9	-317.0	-0.04065		-0.03119	-175.8	-235.0	
								C:SIN:430	683							
								Open 125002 ROSETON	345	126281	FISHKILL	-0.04251	0.22267	1507.8	1929.8	
			21324	1895.4	9767.8		L:146758 CHESTER 138 146771 SHOEM138	138 1	-239.9	-317.0	-0.04065		-0.03119	-175.8	-235.0	
								C:125002	10							
								Open 125002 ROSETON	345	126281	FISHKILL	-0.04251	0.22267	1507.8	1929.8	
			21325	1902.4	9774.8		L:126600 REAC71 345 126641 MOTT HAVEN	345 3	711.2	1196.0	0.25484		0.25484	651.4	1136.2	
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0	250.0	MW dispatch						
								Remove unit 1 from bus 126668 AST ENRG2-G218.0	150.0	MW dispatch						
								Remove unit 1 from bus 126669 AST ENRG2-G318.0	150.0	MW dispatch						
			21326	1902.6	9775		L:126266 DUNWODIE 345 126600 REAC71	345 SR	711.1	1196.0	0.25484		0.25484	651.4	1136.2	
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0	250.0	MW dispatch						
								Remove unit 1 from bus 126668 AST ENRG2-G218.0	150.0	MW dispatch						
								Remove unit 1 from bus 126669 AST ENRG2-G318.0	150.0	MW dispatch						
			21327	1918.6	9791		L:125002 ROSETON 345 126281 FISHKILL	345 1		1507.8	1935.0	0.22267				
								Base Case								
			21328	1935.5	9807.9		L:126266 DUNWODIE 345 126601 REAC72	345 SR	706.3	1196.0	0.25304		0.25304	646.9	1136.6	
								C:GEN:SCS	554							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Remove unit 1 from bus 126667 AST ENRG2-G118.0					250.0				dispatch
								Remove unit 1 from bus 126668 AST ENRG2-G218.0					150.0				dispatch
								Remove unit 1 from bus 126669 AST ENRG2-G318.0					150.0				dispatch
			21329	1935.5	9807.9		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		706.3	1196.0	0.25304		0.25304	646.9	1136.6	
								C:GEN:SCS 554									
								Remove unit 1 from bus 126667 AST ENRG2-G118.0					250.0				dispatch
								Remove unit 1 from bus 126668 AST ENRG2-G218.0					150.0				dispatch
								Remove unit 1 from bus 126669 AST ENRG2-G318.0					150.0				dispatch
			21330	1936.9	9809.3		L:126353 ASTORIA WEST 138 126446 HG 5	138 1		76.5	197.0	0.06219					
								Base Case									
			21331	1956	9828.4		L: Interface 14 Leeds-PV			2752.2	3450.0	0.35674		0.34388	2528.6	3201.3	
								C:SIN:120 668									
								Open 126263 BUCHANAN S 345 126291 MILLWOOD				0.08531	0.07539	786.5	934.0		
								Open 126263 BUCHANAN S 345 126291 MILLWOOD				0.08531	0.07539	786.5	934.0		
								Open 126263 BUCHANAN S 345 126290 LADENTWN				-0.08324	0.00000	39.8	39.8		
								Open 126263 BUCHANAN NA									
								Open 147798 IP#3 GNA									
								Open 147798 IP#3 GNA									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8					1072.8				MW dispatch
			21332	1956	9828.4		L: Interface 14 Leeds-PV			2752.2	3450.0	0.35674		0.34388	2528.6	3201.3	
								C:SIN:130 669									
								Open 126263 BUCHANAN S 345 126291 MILLWOOD				0.08531	0.07539	786.5	934.0		
								Open 126263 BUCHANAN S 345 126291 MILLWOOD				0.08531	0.07539	786.5	934.0		
								Open 126263 BUCHANAN S 345 126290 LADENTWN				-0.08324	0.00000	39.8	39.8		
								Open 126263 BUCHANAN NA									
								Open 147798 IP#3 GNA									
								Open 147798 IP#3 GNA									
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8					1072.8				MW dispatch
			21333	1985.7	9858.1	*	L:126294 PLIVLLEY 345 137451 LEEDS 3	345 2		-1356.6	-1725.0	-0.18552		-0.17565	-1284.4	-1633.2	
								C:SER:CM1 594									
								Open 130750 COOPC345 345 146754 MDTN TAP				-0.09360	0.12737	875.2	1128.2		
								Open 125001 ROCK TAV 345 146754 MDTN TAP				-0.02274	-0.08992	-428.2	-606.7		
			21335	2017	9889.4		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.5	272.0	0.05477					
								Base Case									
			21336	2018.5	9890.9		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		681.9	1196.0	0.25468		0.25484	651.4	1165.8	
								C:SIN:360 682									
								Open 4996 LINDEN 230 126321 GOETHALS				0.08725	0.00000	334.6	334.6		
								Open 126282 FRESH KILLS 345 126283 GOTHLS N				0.00014	-0.02550	-25.6	-77.1		
								Open 126283 GOTHLS N 345 126286 GOWANUSN				0.00302	-0.05254	444.1	338.1		
			21337	2018.7	9891.1		L:126266 DUNWODIE 345 126600 REAC71	345 SR		681.9	1196.0	0.25468		0.25484	651.4	1165.8	
								C:SIN:360 682									
								Open 4996 LINDEN 230 126321 GOETHALS				0.08725	0.00000	334.6	334.6		
								Open 126282 FRESH KILLS 345 126283 GOTHLS N				0.00014	-0.02550	-25.6	-77.1		
								Open 126283 GOTHLS N 345 126286 GOWANUSN				0.00302	-0.05254	444.1	338.1		
			21338	2020.1	9892.5		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		689.8	1196.0	0.25055		0.25484	651.4	1166.2	
								C:GEN:RAV 775									
								Open 126652 RAV 3 22.0 126865 RAV3 60M				0.00000	-0.05362	481.0	372.7		
								Open 126652 RAV 3 22.0 126866 RAV3 60L				-0.03996	0.10724	-962.0	-745.4		
			21339	2020.3	9892.7		L:126266 DUNWODIE 345 126600 REAC71	345 SR		689.8	1196.0	0.25055		0.25484	651.4	1166.2	
								C:GEN:RAV 775									
								Open 126652 RAV 3 22.0 126865 RAV3 60M				0.00000	-0.05362	481.0	372.7		
								Open 126652 RAV 3 22.0 126866 RAV3 60L				-0.03996	0.10724	-962.0	-745.4		
			21340	2032.6	9905	*	L:126600 REAC71 345 126641 MOTT HAVEN	345 3		671.1	1196.0	0.25827		0.25484	651.4	1169.4	
								C:125001 7									
								Open 125001 ROCK TAV 345 126297 RAMAPO				0.01755	0.19532	1119.3	1516.3		
			21342	2032.7	9905.1	*	L:126266 DUNWODIE 345 126600 REAC71	345 SR		671.0	1196.0	0.25827		0.25484	651.4	1169.4	
								C:125001 7									
								Open 125001 ROCK TAV 345 126297 RAMAPO				0.01755	0.19532	1119.3	1516.4		

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21353	2049	9921.4		L:130750 COOPC345 345 130753 FRASR345	345 1		-1318.2	-1703.0	-0.18779		-0.14577	-997.0	-1295.7
								C:130750	196							
								Open 130750 COOPC345	345	147833	MARCY T1	0.43312	-0.09702	-741.6	-940.3	
			21354	2051.6	9924		L:126266 DUNWODIE 345 126601 REAC72	345 SR		677.2	1196.0	0.25288		0.25304	646.9	1166.0
								C:SIN:360	682							
								Open 4996 LINDEN	230	126321	GOETHALS	0.08664	0.00000	334.6	334.6	
								Open 126282 FRESH KILLS	345	126283	GOTHS N	0.00014	-0.02550	-25.6	-77.9	
								Open 126283 GOTHS N	345	126286	GOWANUSN	0.00300	-0.05254	444.1	336.3	
			21355	2051.6	9924		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		677.2	1196.0	0.25288		0.25304	646.9	1166.0
								C:SIN:360	682							
								Open 4996 LINDEN	230	126321	GOETHALS	0.08664	0.00000	334.6	334.6	
								Open 126282 FRESH KILLS	345	126283	GOTHS N	0.00014	-0.02550	-25.6	-77.9	
								Open 126283 GOTHS N	345	126286	GOWANUSN	0.00300	-0.05254	444.1	336.3	
			21356	2053.7	9926.1		L:126266 DUNWODIE 345 126601 REAC72	345 SR		685.1	1196.0	0.24878		0.25304	646.9	1166.6
								C:GEN:RAV	775							
								Open 126652 RAV 3	22.0	126865	RAV3 60M	0.00000	-0.05362	481.0	370.9	
								Open 126652 RAV 3	22.0	126866	RAV3 60L	-0.03967	0.10724	-962.0	-741.8	
			21357	2053.7	9926.1		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		685.1	1196.0	0.24878		0.25304	646.9	1166.6
								C:GEN:RAV	775							
								Open 126652 RAV 3	22.0	126865	RAV3 60M	0.00000	-0.05362	481.0	370.9	
								Open 126652 RAV 3	22.0	126866	RAV3 60L	-0.03967	0.10724	-962.0	-741.8	
			21361	2065.2	9937.6 *		L:126266 DUNWODIE 345 126601 REAC72	345 SR		666.4	1196.0	0.25644		0.25304	646.9	1169.5
								C:125001	7							
								Open 125001 ROCK TAV	345	126297	RAMAPO	0.01743	0.19532	1119.3	1522.7	
			21363	2065.2	9937.6 *		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		666.4	1196.0	0.25644		0.25304	646.9	1169.5
								C:125001	7							
								Open 125001 ROCK TAV	345	126297	RAMAPO	0.01743	0.19532	1119.3	1522.7	
			21451	2116.6	9989		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27973		0.19532	1119.3	1532.8
								C:125002	10							
								Open 125002 ROSETON	345	126281	FISHKILL	0.37909	0.22267	1507.8	1979.1	
			21452	2116.6	9989		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27973		0.19532	1119.3	1532.8
								C:SIN:430	683							
								Open 125002 ROSETON	345	126281	FISHKILL	0.37909	0.22267	1507.8	1979.1	
			21521	2130.4	10002.8		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17451		-0.16823	-1244.2	-1602.6
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04160	0.07539	786.5	947.1	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04160	0.07539	786.5	947.1	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	0.04059	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			21522	2130.4	10002.8		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17451		-0.16823	-1244.2	-1602.6
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04160	0.07539	786.5	947.1	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	-0.04160	0.07539	786.5	947.1	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	0.04059	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8	MW dispatch					
			24595	2142.9	10015.3		L:126298 SPRBROOK 345 126518 REACM52	345 SR		797.4	1434.0	0.29707		0.24606	660.5	1187.8
								C:126298	131							
								Open 126298 SPRBROOK	345	126517	REACM51	0.20729	0.24606	660.5	1187.8	
			24596	2142.9	10015.3		L:126298 SPRBROOK 345 126517 REACM51	345 SR		797.4	1434.0	0.29707		0.24606	660.5	1187.8
								C:126298	132							
								Open 126298 SPRBROOK	345	126518	REACM52	0.20729	0.24606	660.5	1187.8	
			24635	2145.2	10017.6		L:126298 SPRBROOK 345 126517 REACM51	345 SR		796.7	1434.0	0.29707		0.24606	660.5	1188.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:126304	366								
			24636	2145.2	10017.6		L:126298 SPRBROOK 345 126518 REACM52	Open 126304 W 49 ST	345 SR	796.7	126518 REACM52	1434.0	0.29707	-0.20729	-0.24606	-657.2	-1185.0
								C:126304	365								
			24680	2149.2	10021.6		L: Interface 14 Leeds-PV	Open 126304 W 49 ST	345 SR	2669.5	126517 REACM51	3450.0	0.36316	-0.20729	-0.24606	-657.2	-1185.0
								C:SER:CM1	594								
								Open 130750 COOPC345	345 SR		146754 MDTN TAP			0.18267	0.12737	875.2	1149.0
			24710	2151.4	10023.8		L: Interface 14 Leeds-PV	Open 125001 ROCK TAV	345 SR	2670.3	146754 MDTN TAP	3450.0	0.36241	0.04438	-0.08992	-428.2	-621.4
								C:130750	196								
			24724	2154.1	10026.5		L:126304 W 49 ST 345 126517 REACM51	Open 130750 COOPC345	345 SR	-794.1	147833 MARCY T1	-1434.0	-0.29707	-0.19103	-0.09702	-741.6	-950.3
								C:126298	132								
			24725	2154.1	10026.5		L:126304 W 49 ST 345 126518 REACM52	Open 126298 SPRBROOK	345 SR	-794.1	126518 REACM52	-1434.0	-0.29707	-0.20729	0.24606	660.5	1190.5
								C:126298	131								
			24742	2156.4	10028.8		L:126304 W 49 ST 345 126517 REACM51	Open 126298 SPRBROOK	345 SR	-793.4	126517 REACM51	-1434.0	-0.29707	-0.20729	0.24606	660.5	1190.5
								C:126304	366								
			24743	2156.4	10028.8		L:126304 W 49 ST 345 126518 REACM52	Open 126304 W 49 ST	345 SR	-793.4	126518 REACM52	-1434.0	-0.29707	0.20729	-0.24606	-657.2	-1187.8
								C:126304	365								
			27802	2172.3	10044.7		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 126304 W 49 ST	345 SR	-521.5	126517 REACM51	-1196.0	-0.31049	0.20729	-0.24606	-657.2	-1187.8
								C:126298	131								
			27803	2172.3	10044.7		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 126298 SPRBROOK	345 SR	-521.5	126517 REACM51	-1196.0	-0.31049	-0.19423	0.24606	660.5	1195.0
								C:126298	132								
			27897	2174.4	10046.8		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 126298 SPRBROOK	345 SR	-520.9	126518 REACM52	-1196.0	-0.31049	-0.19423	0.24606	660.5	1195.0
								C:126304	366								
			27898	2174.4	10046.8		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 126304 W 49 ST	345 SR	-520.9	126518 REACM52	-1196.0	-0.31049	0.19423	-0.24606	-657.2	-1192.2
								C:126304	365								
			27989	2182.9	10055.3		L:130750 COOPC345 345 146754 MDTN TAP	Open 126304 W 49 ST	345 SR	-520.9	126517 REACM51	-1196.0	-0.31049	0.19423	-0.24606	-657.2	-1192.2
								C:125001	8								
			28131	2201.8	10074.1	*	L: Interface 14 Leeds-PV	Open 125001 ROCK TAV	345 SR	2653.0	130750 COOPC345	3450.0	0.36198	-0.64201	-0.11541	-744.5	-996.4
								C:130750	195								
			28178	2218.1	10090.5		L:126353 ASTORIA WEST 138 126587 HG6 TAP2	Open 130750 COOPC345	345 SR	75.9	146754 MDTN TAP	197.0	0.05458	0.14209	0.12737	875.2	1155.7
								Base Case									
			28226	2227.7	10100.1		L:126298 SPRBROOK 345 126518 REACM52	Open 126600 REAC71	345 SR	780.9	126641 MOTT HAVEN	1434.0	0.29317	0.18486	0.24606	651.4	1219.1
								C:126600	370								
			28227	2227.7	10100.1		L:126298 SPRBROOK 345 126517 REACM51	Open 126600 REAC71	345 SR	780.9	126641 MOTT HAVEN	1434.0	0.29317	0.18486	0.24606	660.5	1208.6
								C:126600	370								
			28228	2227.7	10100.1		L:126298 SPRBROOK 345 126517 REACM51	Open 126600 REAC71	345 SR	780.9	126641 MOTT HAVEN	1434.0	0.29317	0.18486	0.24606	651.4	1219.1
								C:126266	95								
			28229	2227.7	10100.1		L:126298 SPRBROOK 345 126518 REACM52	Open 126266 DUNWODIE	345 SR	780.9	126600 REAC71	1434.0	0.29317	0.18486	0.24606	660.5	1208.6
								C:126266	95								
			28246	2234.3	10106.7		L:126298 SPRBROOK 345 126518 REACM52	Open 126266 DUNWODIE	345 SR	779.9	126600 REAC71	1434.0	0.29276	0.18486	0.24606	651.4	1219.1
								C:126266	96								



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126266	DUNWODIE	345	126601	REAC72	0.18456	0.25304	646.9	1212.3
			28247	2234.3	10106.7		L:126298 SPRBROOK 345 126517 REACM51	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126266	96							
								Open 126266	DUNWODIE	345	126601	REAC72	0.18456	0.25304	646.9	1212.3
			28248	2234.3	10106.7		L:126298 SPRBROOK 345 126517 REACM51	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126601	371							
								Open 126601	REAC72	345	126641	MOTT HAVEN	0.18456	0.25304	646.9	1212.3
			28249	2234.3	10106.7		L:126298 SPRBROOK 345 126518 REACM52	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126601	371							
								Open 126601	REAC72	345	126641	MOTT HAVEN	0.18456	0.25304	646.9	1212.3
			28258	2239	10111.4		L:126304 W 49 ST 345 126518 REACM52	345 2		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126600	370							
								Open 126600	REAC71	345	126641	MOTT HAVEN	-0.18486	0.25484	651.4	1222.0
			28259	2239	10111.4		L:126304 W 49 ST 345 126517 REACM51	345 1		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126600	370							
								Open 126600	REAC71	345	126641	MOTT HAVEN	-0.18486	0.25484	651.4	1222.0
			28260	2239	10111.4		L:126304 W 49 ST 345 126518 REACM52	345 2		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126266	95							
								Open 126266	DUNWODIE	345	126600	REAC71	-0.18486	0.25484	651.4	1221.9
			28261	2239	10111.4		L:126304 W 49 ST 345 126517 REACM51	345 1		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126266	95							
								Open 126266	DUNWODIE	345	126600	REAC71	-0.18486	0.25484	651.4	1221.9
			28272	2245.6	10118		L:126304 W 49 ST 345 126517 REACM51	345 1		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126266	96							
								Open 126266	DUNWODIE	345	126601	REAC72	-0.18456	0.25304	646.9	1215.1
			28273	2245.6	10118		L:126304 W 49 ST 345 126518 REACM52	345 2		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126266	96							
								Open 126266	DUNWODIE	345	126601	REAC72	-0.18456	0.25304	646.9	1215.1
			28274	2245.6	10118		L:126304 W 49 ST 345 126518 REACM52	345 2		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126601	371							
								Open 126601	REAC72	345	126641	MOTT HAVEN	-0.18456	0.25304	646.9	1215.1
			28275	2245.6	10118		L:126304 W 49 ST 345 126517 REACM51	345 1		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126601	371							
								Open 126601	REAC72	345	126641	MOTT HAVEN	-0.18456	0.25304	646.9	1215.1
			28386	2319.8	10192.2		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1312.9	-1725.0	-0.17763		-0.16823	-1244.2	-1634.5
								C:SER:CM1	594							
								Open 130750	COOPC345	345	146754	MDTN TAP	-0.08907	0.12737	875.2	1170.7
								Open 125001	ROCK TAV	345	146754	MDTN TAP	-0.02164	-0.08992	-428.2	-636.8
			28387	2322.4	10194.8	*	L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1313.3	-1725.0	-0.17727		-0.16823	-1244.2	-1634.9
								C:130750	196							
								Open 130750	COOPC345	345	147833	MARCY T1	0.09315	-0.09702	-741.6	-966.9
			28466	2407.9	10280.3		L: Interface 15 ItoNYC345			2852.1	5260.0	1.00000		1.00000	2612.7	5020.6
								C:GEN:SCS	554							
								Remove unit 1	from bus 126667	AST ENRG2-G118.0	250.0	MW	dispatch			
								Remove unit 1	from bus 126668	AST ENRG2-G218.0	150.0	MW	dispatch			
								Remove unit 1	from bus 126669	AST ENRG2-G318.0	150.0	MW	dispatch			
			28490	2442.1	10314.5		L:126295 RAINY 345 126641 MOTT HAVEN	345 4		-488.3	-1196.0	-0.28979		-0.24518	-368.6	-967.3
								C:126298	131							
								Open 126298	SPRBROOK	345	126517	REACM51	-0.18128	0.24606	660.5	1261.4
			28491	2442.1	10314.5		L:126295 RAINY 345 126641 MOTT HAVEN	345 4		-488.3	-1196.0	-0.28979		-0.24518	-368.6	-967.3
								C:126298	132							
								Open 126298	SPRBROOK	345	126518	REACM52	-0.18128	0.24606	660.5	1261.4
			28492	2442.1	10314.5		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		185.6	320.0	0.05504		0.05477	161.5	295.3
								C:BUS:E13	631							
								Open 126275	E13ST 48	345	126277	FARRAGUT	-0.09104	-0.04929	14.2	-106.2
								Open 126275	E13ST 48	345	147829	C POLETTI	-0.09370	0.04500	-270.9	-161.0
								Open 126275	E13ST 48	345	126499	T11MPT	0.00000	0.00201	121.5	126.4
								Open 126275	E13ST 48	345	126867	TX10 T	-0.09076	0.00000	0.4	0.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28493	2444.1	10316.5		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-487.7	-1196.0	-0.28979		-0.24518	-368.6	-967.8
								C:126304	365							
								Open 126304 W 49 ST	345	126517	REACM51	0.18128		-0.24606	-657.2	-1258.6
			28494	2444.1	10316.5		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-487.7	-1196.0	-0.28979		-0.24518	-368.6	-967.8
								C:126304	366							
								Open 126304 W 49 ST	345	126518	REACM52	0.18128		-0.24606	-657.2	-1258.6
			28509	2458.8	10331.2		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		183.9	320.0	0.05533		0.05477	161.5	296.2
								C:BUS:E13	628							
								Open 126272 E13ST 45	345	126277	FARRAGUT	-0.09049	0.16021	-147.0	246.9	
								Open 126272 E13ST 45	345	126304	W 49 ST	-0.08979	-0.16770	-102.4	-514.8	
								Open 126272 E13ST 45	345	126495	T14MPT	0.00000	0.00347	115.4	123.9	
								Open 126272 E13ST 45	345	126871	TX15 T	-0.09028	0.00000	0.8	0.8	
			28510	2460.5	10332.9		L:130750 COOPC345 345 147833 MARCY T1	345 1		-1009.8	-1345.0	-0.13623		-0.09702	-741.6	-980.3
								C:130750	192							
								Open 130750 COOPC345	345	130753	FRASR345	0.26904		-0.14577	-997.0	-1355.7
			28512	2461	10333.4		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		183.8	320.0	0.05534		0.05477	161.5	296.3
								C:BUS:E13	629							
								Open 126273 E13ST 46	345	126277	FARRAGUT	-0.09043	0.15897	-145.0	246.2	
								Open 126273 E13ST 46	345	126304	W 49 ST	-0.08974	-0.16649	-103.3	-513.0	
								Open 126273 E13ST 46	345	126497	T13MPT	0.00000	0.00362	119.0	127.9	
								Open 126273 E13ST 46	345	126873	TX12 T	-0.09023	0.00000	0.9	0.9	
			30098	2526.8	10399.2		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-554.8	-707.0	-0.06023		-0.03745	-446.4	-541.0
								C:125001	9							
								Open 125001 ROCK TAV	345	146754	MDTN TAP	0.25331		-0.08992	-428.2	-655.4
			30103	2527.1	10399.4		L: Interface 15 ItoNYC345			2734.7	5260.0	0.99932		1.00000	2612.7	5139.7
								C:SIN:360	682							
								Open 4996 LINDEN	230	126321	GOETHALS	0.34804	0.00000	334.6	334.6	
								Open 126282 FRESH KILLS	345	126283	GOTHLS N	0.00073	-0.02550	-25.6	-90.0	
								Open 126283 GOTHLS N	345	126286	GOWANUS	0.01256	-0.05254	444.1	311.4	
			30127	2541	10413.4		L: Interface 15 ItoNYC345			2686.3	5260.0	1.01285		1.00000	2612.7	5153.7
								C:125001	7							
								Open 125001 ROCK TAV	345	126297	RAMAPO	0.06579	0.19532	1119.3	1615.7	
			30128	2541	10413.4		L: Interface 15 ItoNYC345			2686.3	5260.0	1.01285		1.00000	2612.7	5153.7
								C:SIN:440	684							
								Open 125001 ROCK TAV	345	126297	RAMAPO	0.06579	0.19532	1119.3	1615.7	
			30138	2547.2	10419.6		L: Interface 15 ItoNYC345			2712.8	5260.0	1.00000		1.00000	2612.7	5159.9
								C:GEN:NYE	553							
								Remove unit 1 from bus 147788 NYPACCI/2GT218.0	160.0	MW	dispatch					
								Remove unit 1 from bus 147789 NYPACCI/2STG118.0	180.0	MW	dispatch					
								Remove unit 1 from bus 147790 NYPACCI/2GT118.0	160.0	MW	dispatch					
			30142	2552.3	10424.7		L: Interface 15 ItoNYC345			2745.5	5260.0	0.98519		1.00000	2612.7	5165.0
								C:GEN:RAV	775							
								Open 126652 RAV 3	22.0	126865	RAV3 60M	0.00000	-0.05362	481.0	344.2	
								Open 126652 RAV 3	22.0	126866	RAV3 60L	-0.13808	0.10724	-962.0	-688.3	
			30145	2554.4	10426.8		L:125001 ROCK TAV 345 130750 COOPC345	345 2		-1293.9	-1793.0	-0.19537		-0.11541	-744.5	-1039.3
								C:130750	195							
								Open 130750 COOPC345	345	146754	MDTN TAP	-0.62777	0.12737	875.2	1200.6	
			30146	2554.9	10427.3		L: Interface 15 ItoNYC345			2705.1	5260.0	1.00000		1.00000	2612.7	5167.5
								C:BUS:SHC	622							
								Open 128835 SHORE RD	345	129293	SHORE RD	0.19463	0.00000	237.1	237.1	
								Open 128835 SHORE RD	345	129293	SHORE RD	0.19463	0.00000	236.3	236.3	
								Open 126266 DUNWODIE	345	128835	SHORE RD	0.24724	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0	126266	DUNWODIE	0.24724	0.00000	0.0	0.0	
			30147	2554.9	10427.3		L: Interface 15 ItoNYC345			2705.1	5260.0	1.00000		1.00000	2612.7	5167.6
								C:126266	362							
								Open 126266 DUNWODIE	345	128835	SHORE RD	0.19463	0.00000	474.7	474.7	
			30177	2573.3	10445.7		L: Interface 15 ItoNYC345			2686.7	5260.0	1.00000		1.00000	2612.7	5186.0
								C:GEN:SAL	568							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			30185	2582.1	10454.5	*	L: Interface 15 ItoNYC345	Remove unit 1 from bus 36 SALEM-G1			22.0	1117.3	MW dispatch			
								2677.9	5260.0	1.00000				1.00000	2612.7	5194.8
								C:126299	133							
								Open 126299 REACBUS	345	147857	DVNPT NK	0.14136	0.00000		461.5	461.5
			30201	2591.6	10464		L:137451 LEEDS 3 345 137453 N.SCOT99	345 2		-1218.1	-1724.0	-0.19519		-0.14158	-863.0	-1229.9
								C:BUS:N.5	615							
								Open 137452 N.SCOT77	345	137453	N.SCOT99	0.60778	-0.01576		-243.2	-284.0
								Open 137452 N.SCOT77	345	137516	N.SCOT1	0.40442	-0.02019		113.3	61.0
								Open 137200 EDIC	345	137452	N.SCOT77	-0.33528	0.10856		822.9	1104.2
								Open 137450 ALPS345	345	137452	N.SCOT77	-0.26699	-0.00198		-85.1	-90.3
								Open 137451 LEEDS 3	345	137452	N.SCOT77	0.20565	0.00000		0.0	0.0
			30299	2637.7	10510.1		L:125002 ROSETON 345 125190 ROSE GN1	24.0 1		-437.8	-614.0	-0.06679				
								Base Case								
			33587	2733.7	10606.1		L:125001 ROCK TAV 345 130750 COOPC345	345 2		-1264.6	-1793.0	-0.19328		-0.11541	-744.5	-1060.0
								C:SER:CM1	594							
								Open 130750 COOPC345	345	146754	MDTN TAP	-0.55572	0.12737		875.2	1223.4
								Open 125001 ROCK TAV	345	146754	MDTN TAP	0.07882	-0.08992		-428.2	-674.0
			33643	2762.5	10634.9		L:146758 CHESTER 138 146771 SHOEM138	138 1		-175.8	-262.0	-0.03119				
								Base Case								
			33657	2768	10640.4		L:146758 CHESTER 138 146773 SGRLF138	138 1		204.5	317.0	0.04065		0.03119	140.4	226.7
								C:SIN:430	683							
								Open 125002 ROSETON	345	126281	FISHKILL	0.04251	0.22267		1507.8	2124.1
			33658	2768	10640.4		L:146758 CHESTER 138 146773 SGRLF138	138 1		204.5	317.0	0.04065		0.03119	140.4	226.7
								C:125002	10							
								Open 125002 ROSETON	345	126281	FISHKILL	0.04251	0.22267		1507.8	2124.1
			33718	2821.3	10693.7		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-454.9	-1196.0	-0.26269		-0.26269	-393.2	-1134.4
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0			250.0	MW dispatch				
								Remove unit 1 from bus 126668 AST ENRG2-G218.0			150.0	MW dispatch				
								Remove unit 1 from bus 126669 AST ENRG2-G318.0			150.0	MW dispatch				
			35251	2866.9	10739.3		L:126298 SPRBROOK 345 126518 REACM52	345 SR		693.3	1434.0	0.25835		0.24606	660.5	1365.9
								C:126266	92							
								Open 126266 DUNWODIE	345	126298	SPRBROOK	-0.09107	-0.13497		-360.4	-747.4
			35252	2866.9	10739.3		L:126298 SPRBROOK 345 126517 REACM51	345 SR		693.3	1434.0	0.25835		0.24606	660.5	1365.9
								C:126266	92							
								Open 126266 DUNWODIE	345	126298	SPRBROOK	-0.09107	-0.13497		-360.4	-747.4
			35304	2879.8	10752.1		L:126304 W 49 ST 345 126518 REACM52	345 2		-690.0	-1434.0	-0.25835		-0.24606	-657.2	-1365.8
								C:126266	92							
								Open 126266 DUNWODIE	345	126298	SPRBROOK	0.09107	-0.13497		-360.4	-749.1
			35305	2879.8	10752.1		L:126304 W 49 ST 345 126517 REACM51	345 1		-690.0	-1434.0	-0.25835		-0.24606	-657.2	-1365.8
								C:126266	92							
								Open 126266 DUNWODIE	345	126298	SPRBROOK	0.09107	-0.13497		-360.4	-749.1
			35307	2880.3	10752.7		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.9	320.0	0.05490		0.05477	161.5	319.3
								C:126298	131							
								Open 126298 SPRBROOK	345	126517	REACM51	0.00052	0.24606		660.5	1369.2
			35308	2880.3	10752.7		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.9	320.0	0.05490		0.05477	161.5	319.3
								C:126298	132							
								Open 126298 SPRBROOK	345	126518	REACM52	0.00052	0.24606		660.5	1369.2
			35309	2880.4	10752.8		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.9	320.0	0.05490		0.05477	161.5	319.3
								C:126304	365							
								Open 126304 W 49 ST	345	126517	REACM51	-0.00052	-0.24606		-657.2	-1365.9
			35310	2880.4	10752.8		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.9	320.0	0.05490		0.05477	161.5	319.3
								C:126304	366							
								Open 126304 W 49 ST	345	126518	REACM52	-0.00052	-0.24606		-657.2	-1365.9
			NA	2881.5	10753.9	R	L: Interface 49 C-PJMCentral			99.2	0.0	-0.03444		-0.03444	189.9	90.7
								C:GEN:9 M	562							
								Remove unit 2 from bus 136700 9M PT 2G			25.0	1198.7	MW dispatch			
			35312	2881.5	10753.9	*	L: Interface 49 C-PJMCentral			99.2	0.0	-0.03444		-0.03444	189.9	90.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:GEN:9 M	562							
			NA	2881.5	10753.9	R	L: Interface 50 PJMCentral-C	Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch				
										-99.2	0.0	0.03444		0.03444	-189.9	-90.7
								C:GEN:9 M	562							
			35313	2881.5	10753.9	*	L: Interface 50 PJMCentral-C	Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch				
										-99.2	0.0	0.03444		0.03444	-189.9	-90.7
								C:GEN:9 M	562							
			35320	2891.7	10764.1		L:126274 E13ST 47 345 126870 TX17 T	Remove unit 2 from bus 136700 9M PT 2G		25.0	1198.7	MW dispatch				
										69.0 17	161.6	320.0	0.05478		0.05477	161.5 319.9
								C:SIN:120	668							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00003	0.07539	786.5	1004.5	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00003	0.07539	786.5	1004.5	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	-0.00002	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN		22.0	1072.8	MW dispatch				
			35321	2891.7	10764.1		L:126274 E13ST 47 345 126870 TX17 T	Remove unit 1 from bus 147798 IP#3 GEN		22.0	1072.8	MW dispatch				
										69.0 17	161.6	320.0	0.05478		0.05477	161.5 319.9
								C:SIN:130	669							
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00003	0.07539	786.5	1004.5	
								Open 126263 BUCHANAN S	345	126291	MILLWOOD	0.00003	0.07539	786.5	1004.5	
								Open 126263 BUCHANAN S	345	126290	LADENTWN	-0.00002	0.00000	39.8	39.8	
								Open 126263 BUCHANAN S								
								Open 147798 IP#3 GNA								
								Open 147798 IP#3 GNA								
								Remove unit 1 from bus 147798 IP#3 GEN		22.0	1072.8	MW dispatch				
			35322	2892.4	10764.8	*	L:126274 E13ST 47 345 126870 TX17 T	Remove unit 1 from bus 147798 IP#3 GEN		22.0	1072.8	MW dispatch				
										69.0 17	161.6	320.0	0.05477		0.05477	161.5 319.9
								C:	91	351						
								Open 91 JEFFERSN	500	126250	RAMAPO 5	0.00005	0.00000	1001.0	1001.0	
			37064	2899.2	10771.6		L:126298 SPRBROOK 345 126518 REACM52	Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
										345 SR	720.6	1434.0	0.24606	0.24606	660.5	1373.9
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
								Remove unit 1 from bus 126668 AST ENRG2-G218.0		150.0	MW dispatch					
								Remove unit 1 from bus 126669 AST ENRG2-G318.0		150.0	MW dispatch					
			37065	2899.2	10771.6		L:126298 SPRBROOK 345 126517 REACM51	Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
										345 SR	720.6	1434.0	0.24606	0.24606	660.5	1373.9
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
								Remove unit 1 from bus 126668 AST ENRG2-G218.0		150.0	MW dispatch					
								Remove unit 1 from bus 126669 AST ENRG2-G318.0		150.0	MW dispatch					
			37081	2902.9	10775.3		L:137451 LEEDS 3 345 137452 N.SCOT77	Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
										345 1	-1188.8	-1724.0	-0.18437		-0.14253	-867.6 -1281.4
								C:137451	7							
								Open 137451 LEEDS 3	345	147831	GILB 345	0.34978	-0.11963	-918.2	-1265.5	
			37109	2912.6	10785		L:126304 W 49 ST 345 126518 REACM52	Remove unit 1 from bus 126668 AST ENRG2-G218.0		150.0	MW dispatch					
										345 2	-717.3	-1434.0	-0.24606		-0.24606	-657.2 -1373.9
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
								Remove unit 1 from bus 126668 AST ENRG2-G218.0		150.0	MW dispatch					
								Remove unit 1 from bus 126669 AST ENRG2-G318.0		150.0	MW dispatch					
			37110	2912.6	10785		L:126304 W 49 ST 345 126517 REACM51	Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
										345 1	-717.3	-1434.0	-0.24606		-0.24606	-657.2 -1373.9
								C:GEN:SCS	554							
								Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
								Remove unit 1 from bus 126668 AST ENRG2-G218.0		150.0	MW dispatch					
								Remove unit 1 from bus 126669 AST ENRG2-G318.0		150.0	MW dispatch					
			37126	2938	10810.4		L:126295 RAINEY 345 126641 MOTT HAVEN	Remove unit 1 from bus 126667 AST ENRG2-G118.0		250.0	MW dispatch					
										345 3	-424.7	-1196.0	-0.26253		-0.26269	-393.2 -1165.0
								C:SIN:360	682							
								Open 4996 LINDEN	230	126321	GOETHALS	-0.08994	0.00000	334.6	334.6	
								Open 126282 FRESH KILLS	345	126283	GOTHS N	-0.00015	-0.02550	-25.6	-100.5	
								Open 126283 GOTHS N	345	126286	GOWANUSN	-0.00311	-0.05254	444.1	289.8	
			37128	2939.2	10811.6		L:126295 RAINEY 345 126641 MOTT HAVEN	Remove unit 1 from bus 126669 AST ENRG2-G318.0		150.0	MW dispatch					
										345 3	-413.5	-1196.0	-0.26623		-0.26269	-393.2 -1165.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SIN:440	684							
			37129	2939.2	10811.6		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 125001 ROCK TAV 345 3								
								C:125001	7							
			37132	2942.4	10814.8		L:137451 LEEDS 3 345 137453 N.SCOT99	Open 125001 ROCK TAV 345 2								
								C:137451	7							
			37142	2951.6	10824		L:126295 RAINEY 345 126641 MOTT HAVEN	Open 137451 LEEDS 3 345 3								
								C:GEN:NYH	553							
								Remove unit 1 from bus 147788 NYPAC1/2GT218.0 160.0 MW dispatch								
								Remove unit 1 from bus 147789 NYPAC1/2STG18.0 180.0 MW dispatch								
			37143	2954.7	10827.1	*	L:126295 RAINEY 345 126641 MOTT HAVEN	Open 137451 LEEDS 3 345 3								
								C:GEN:RAV	775							
								Open 126652 RAV 3 22.0 126865 RAV3 60M 0.00000 -0.05362 481.0 322.6								
								Open 126652 RAV 3 22.0 126866 RAV3 60L 0.04119 0.10724 -962.0 -645.2								

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 9:56 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Program Files\PTI\MUST 9.0\Program\scratch.rcf  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 33700  
 First violation - -110552.2 MW.

Interface-1 Interface 11 DUN-SOUTH OP Init.Flow= 4869.97 TDF= 1.0000

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ABCDEF	GJK_IMPORT	3000.0	1	-110552	-105949	-105682		L: Interface 20 PJM-CENT	C:126294 PL	120	3329.1	0.0	0.03011		0.02312	3278.0	721.5
									Open 126294 PLTVLLEY		345	137451	LEEDS 3	-0.03979	-0.17565	-1284.4	18134.3
			2	-109847	-105244	-104977		L: Interface 20 PJM-CENT			3333.9	0.0	0.03035		0.02312	3278.0	737.8
									C:SER:CMT34	594							
									Open 130750 COOPC345	345	146754	MDTN TAP	0.07978	0.12731	875.2	-13109.0	
									Open 125001 ROCK TAV	345	146754	MDTN TAP	0.03257	-0.08998	-428.2	9455.4	
			3	-108214	-103611	-103344		L: Interface 20 PJM-CENT			3336.4	0.0	0.03083		0.02312	3278.0	775.5
									C:137200 ED	946							
									Open 137200 EDIC		345	137452	N.SCOT77	0.07097	0.10858	822.9	-10927.3
			4	-107756	-103153	-102886		L: Interface 20 PJM-CENT			3343.9	0.0	0.03103		0.02312	3278.0	786.1
									C:SIN:1501	670							
									Open 137200 EDIC		345	137452	N.SCOT77	0.07282	0.10858	822.9	-10877.6
									Open 137228 INGMS-CD	115	137886	INGHAM-E	0.05009	0.00000	119.9	119.9	
									Open 137235 PORTER 1	115	147905	ILION	-0.00015	-0.00048	88.8	140.5	
			5	-107756	-103153	-102886		L: Interface 20 PJM-CENT			3343.9	0.0	0.03103		0.02312	3278.0	786.1
									C:SIN:1601	671							
									Open 137200 EDIC		345	137452	N.SCOT77	0.07282	0.10858	822.9	-10877.6
									Open 137228 INGMS-CD	115	137886	INGHAM-E	0.05011	0.00000	119.9	119.9	
									Open 137235 PORTER 1	115	137246	VALLEY	-0.00023	-0.00070	74.9	150.6	
			6	-107553	-102950	-102683		L: Interface 20 PJM-CENT			3325.1	0.0	0.03092		0.02312	3278.0	790.8
									C:147834 NI	226							
									Open 147834 NIAG 345	345	149000	ROCH 345	0.11154	0.06985	422.0	-7090.2	
			7	-105562	-100960	-100692		L: Interface 20 PJM-CENT			3345.2	0.0	0.03169		0.02312	3278.0	836.9
									C:137453 N.	12							
									Open 137453 N.SCOT99		345	147833	MARCY T1	-0.07310	-0.11716	-920.0	11448.1
			8	-105074	-100471	-100204		L: Interface 20 PJM-CENT			3353.1	0.0	0.03191		0.02312	3278.0	848.1
									C:SIN:1801	673							
									Open 137453 N.SCOT99		345	147833	MARCY T1	-0.07499	-0.11716	-920.0	11390.9
									Open 137228 INGMS-CD	115	137886	INGHAM-E	0.05104	0.00000	119.9	119.9	
									Open 137235 PORTER 1	115	147905	ILION	-0.00015	-0.00048	88.8	139.2	
			9	-105074	-100471	-100204		L: Interface 20 PJM-CENT			3353.1	0.0	0.03191		0.02312	3278.0	848.2
									C:SIN:1701	672							
									Open 137453 N.SCOT99		345	147833	MARCY T1	-0.07499	-0.11716	-920.0	11390.8
									Open 137228 INGMS-CD	115	137886	INGHAM-E	0.05106	0.00000	119.9	119.9	
									Open 137235 PORTER 1	115	137246	VALLEY	-0.00023	-0.00070	74.9	148.7	
			10	-103703	-99100.7	-98833.5*		L: Interface 20 PJM-CENT			3348.0	0.0	0.03228		0.02312	3278.0	879.9
									C:130750 CO	196							
									Open 130750 COOPC345		345	147833	MARCY T1	-0.09444	-0.09699	-741.6	9316.3
			25	-37479.1	-32876.3	-32609.1		L: Interface 23 QFW			1180.5	0.0	0.03150		0.02041	1090.3	325.5
									C:130754 KI	205							
									Open 130754 KINTI345		345	149000	ROCH 345	0.17204	0.06447	524.4	-1891.9
			26	-36009.7	-31406.9	-31139.7		L: Interface 23 QFW			1084.2	0.0	0.03011		0.02041	1090.3	355.5
									C:SER:EESR/	612							
									Open 135251 S RIPLEY		230	200654	ERIE E	0.36120	0.02172	9.1	-773.1
									Open 135277 FALCONER		115	200579	WARREN	0.31047	0.00721	-36.4	-296.2

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
				27	-35530.3	-30927.5	-30660.3	L: Interface 23 QFW	Open 130836 N.WAV115	115	200676 E.SAYRE	0.04849	-0.00790	39.9	324.4		
									C:SER:EESR/	610	1082.3	0.0	0.03046	0.02041	1090.3	365.3	
									Open 135251 S RIPLEY	230	200654 ERIE E	0.36020	0.02172	9.1	-762.7		
									Open 135277 FALCONER	115	200579 WARREN	0.30929	0.00721	-36.4	-292.7		
				28	-35225	-30622.2	-30355	L: Interface 23 QFW		1073.0	0.0	0.03046		0.02041	1090.3	371.5	
									C:SER:ESEE/	611							
									Open 270 ERIE SO.	230	531 ERIE SE	0.00129	-0.01196	17.5	438.7		
									Open 531 ERIE SE	230	200654 ERIE E	-0.36095	-0.02172	16.9	782.0		
									Open 135277 FALCONER	115	200579 WARREN	0.30905	0.00721	-36.4	-290.5		
				29	-34368.2	-29765.4	-29498.2	L: Interface 23 QFW		1077.2	0.0	0.03134		0.02041	1090.3	389.0	
									C:136150 CL	717							
									Open 136150 CLAY	345	149001 PANNELL3	-0.14085	-0.07764	93.3	2761.6		
				30	-34304.8	-29702	-29434.8	L: Interface 23 QFW		1077.1	0.0	0.03140		0.02041	1090.3	390.3	
									C:136150 CL	718							
									Open 136150 CLAY	345	149001 PANNELL3	-0.14111	-0.07789	93.6	2765.6		
				31	-33756	-29153.2	-28886.1	L: Interface 23 QFW		1177.8	0.0	0.03489		0.02041	1090.3	401.5	
									C:147834 NI	226							
									Open 147834 NIAG	345	345 149000 ROCH 345	0.20740	0.06985	422.0	-1935.7		
				32	-19338.3	-14735.5	-14468.3	L: Interface 61 PJMC2C		630.7	0.0	0.03262		0.03262	550.2	-80.6	
									C:GEN:9 MI	562							
									Remove unit 2 from bus 1	3	6700 9M PT 2G	25.0	1198.7 MW dispatch				
				33	-19338.3	-14735.5	-14468.3	L: Interface 47 C-PJMWest		-630.7	0.0	-0.03262		-0.03262	-550.2	80.6	
									C:GEN:9 MI	562							
									Remove unit 2 from bus 1	3	6700 9M PT 2G	25.0	1198.7 MW dispatch				
				34	-19338.3	-14735.5	-14468.3	L: Interface 48 PJMWest-C		630.7	0.0	0.03262		0.03262	550.2	-80.6	
									C:GEN:9 MI	562							
									Remove unit 2 from bus 1	3	6700 9M PT 2G	25.0	1198.7 MW dispatch				
				35	-19338.3	-14735.5	-14468.3	L: Interface 60 C2PJMC		-630.7	0.0	-0.03262		-0.03262	-550.2	80.6	
									C:GEN:9 MI	562							
									Remove unit 2 from bus 1	3	6700 9M PT 2G	25.0	1198.7 MW dispatch				
				36	-18955.7	-14352.9	-14085.8	L: Interface 48 PJMWest-C		618.3	0.0	0.03262		0.03262	550.2	-68.1	
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									3563 MILL#3	24.0	1276.0 MW dispatch						
				37	-18955.7	-14352.9	-14085.8	L: Interface 60 C2PJMC		-618.3	0.0	-0.03262		-0.03262	-550.2	68.1	
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									3563 MILL#3	24.0	1276.0 MW dispatch						
				38	-18955.7	-14352.9	-14085.8	L: Interface 47 C-PJMWest		-618.3	0.0	-0.03262		-0.03262	-550.2	68.1	
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									3563 MILL#3	24.0	1276.0 MW dispatch						
				39	-18955.7	-14352.9	-14085.8	L: Interface 61 PJMC2C		618.3	0.0	0.03262		0.03262	550.2	-68.1	
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									3563 MILL#3	24.0	1276.0 MW dispatch						
				40	-18953.2	-14350.4	-14083.3	L: Interface 60 C2PJMC		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0	
									C:GEN:SEAB&	576							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									2869 SBRK G1	25.0	1318.0 MW dispatch						
				41	-18953.2	-14350.4	-14083.3	L: Interface 60 C2PJMC		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0	
									C:GEN:SEABR	574							
									2869 SBRK G1	25.0	1318.0 MW dispatch						
				42	-18953.2	-14350.4	-14083.3	L: Interface 61 PJMC2C		618.2	0.0	0.03262		0.03262	550.2	-68.0	
									C:GEN:SEAB&	576							
									Open 100508 SANDB115	115	100509 SB RCTOR	0.00000	0.00000	-0.1	-0.1		
									2869 SBRK G1	25.0	1318.0 MW dispatch						
				43	-18953.2	-14350.4	-14083.3	L: Interface 47 C-PJMWest		-618.2	0.0	-0.03262		-0.03262	-550.2	68.0	
									C:GEN:SEABR	574							
									2869 SBRK G1	25.0	1318.0 MW dispatch						
				44	-18953.2	-14350.4	-14083.3	L: Interface 48 PJMWest-C		618.2	0.0	0.03262		0.03262	550.2	-68.0	
									C:GEN:SEAB&	576							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			45	-18953.2	-14350.4	-14083.3		L: Interface 48 PJMWest-C	2869 SBRK G1	25.0	1318.0 MW dispatch							
									C:GEN:SEABR	574		618.2	0.0	0.03262		0.03262	550.2	-68.0
									2869 SBRK G1	25.0	1318.0 MW dispatch							
			46	-18953.2	-14350.4	-14083.3		L: Interface 47 C-PJMWest	C:GEN:SEAB6	576		-618.2	0.0	-0.03262	-0.03262	-550.2	68.0	
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			47	-18953.2	-14350.4	-14083.3		L: Interface 61 PJMC2C	2869 SBRK G1	25.0	1318.0 MW dispatch							
									C:GEN:SEABR	574		618.2	0.0	0.03262		0.03262	550.2	-68.0
									2869 SBRK G1	25.0	1318.0 MW dispatch							
			48	-18789.3	-14186.5	-13919.3		L: Interface 61 PJMC2C	C:GEN:SEAB6	576		612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MLS36	575								
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			49	-18789.3	-14186.5	-13919.3		L: Interface 60 C2PJMC	3563 MILL#3	24.0	1276.0 MW dispatch							
									C:GEN:MLS36	575		-612.8	0.0	-0.03262	-0.03262	-550.2	62.7	
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			50	-18789.3	-14186.5	-13919.3		L: Interface 47 C-PJMWest	3563 MILL#3	24.0	1276.0 MW dispatch							
									C:GEN:MILLS	573		-612.8	0.0	-0.03262	-0.03262	-550.2	62.7	
									3563 MILL#3	24.0	1276.0 MW dispatch							
			51	-18789.3	-14186.5	-13919.3		L: Interface 47 C-PJMWest	C:GEN:MILLS	573		-612.8	0.0	-0.03262	-0.03262	-550.2	62.7	
									C:GEN:MLS36	575								
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			52	-18789.3	-14186.5	-13919.3		L: Interface 60 C2PJMC	3563 MILL#3	24.0	1276.0 MW dispatch							
									C:GEN:MILLS	573		-612.8	0.0	-0.03262	-0.03262	-550.2	62.7	
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			53	-18789.3	-14186.5	-13919.3		L: Interface 48 PJMWest-C	3563 MILL#3	24.0	1276.0 MW dispatch							
									C:GEN:MLS36	575		612.8	0.0	0.03262		0.03262	550.2	-62.7
									Open 100508 SANDB115	115	100509 SB RCTOR			0.00000	0.00000	-0.1	-0.1	
			54	-18789.3	-14186.5	-13919.3		L: Interface 61 PJMC2C	3563 MILL#3	24.0	1276.0 MW dispatch							
									C:GEN:MILLS	573		612.8	0.0	0.03262		0.03262	550.2	-62.7
									3563 MILL#3	24.0	1276.0 MW dispatch							
			55	-18789.3	-14186.5	-13919.3		L: Interface 48 PJMWest-C	C:GEN:MILLS	573		612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MILLS	573								
									3563 MILL#3	24.0	1276.0 MW dispatch							
			56	-18688.1	-14085.3	-13818.1		L: Interface 48 PJMWest-C	C:HQ-NY-765	777		636.4	0.0	0.03405		0.03262	550.2	-59.4
									Open 147827 MARCY765 NA									
									Open 147828 MASS 765 NA									
									Open 147827 MARCY765	765	147833 MARCY T1			0.02481	0.03100	624.3	45.0	
									Open 147827 MARCY765	765	147833 MARCY T1			0.02481	0.02695	543.3	39.6	
									Open 156 MCY765SW NA									
									Open 147838 MASS230B	230	147839 MOSES E			0.00000	-0.02898	10.7	552.2	
									Open 147828 MASS 765 NA									
									Open 147837 MASS230A	230	147839 MOSES E			-0.05511	0.00000	18.8	18.8	
									Open 147828 MASS 765 NA									
									Open 158 MS765SW2 NA									
									Open 157 MS765SW1 NA									
									Decrease bus 180001 BEA-DLX	13.8	generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3	120	load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL	13.8	generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4	120	load to357.0 MW dispatch							
			57	-18688.1	-14085.3	-13818.1		L: Interface 61 PJMC2C	C:HQ-NY-765	777		636.4	0.0	0.03405		0.03262	550.2	-59.4
									Open 147827 MARCY765 NA									
									Open 147828 MASS 765 NA									
									Open 147827 MARCY765	765	147833 MARCY T1			0.02481	0.03100	624.3	45.0	
									Open 147827 MARCY765	765	147833 MARCY T1			0.02481	0.02695	543.3	39.6	



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									Open	156	MCY765SW	NA						
									Open	147838	MASS230B	230	147839	MOSES E	0.00000	-0.02898	10.7	552.2
									Open	147828	MASS 765	NA						
									Open	147837	MASS230A	230	147839	MOSES E	-0.05511	0.00000	18.8	18.8
									Open	147828	MASS 765	NA						
									Open	158	MS765SW2	NA						
									Open	157	MS765SW1	NA						
									Decrease	bus 180001	BEA-DLX	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181319	CHAT G3	120	load	to357.0	MW	dispatch		
									Decrease	bus 180002	BEA-DL	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181419	CHAT G4	120	load	to357.0	MW	dispatch		
			58	-18688.1	-14085.3	-13818.1		L: Interface 47 C-PJMWest				-636.4	0.0	-0.03405		-0.03262	-550.2	59.4
									C:HQ-NY-765	777								
									Open	147827	MARCY765	NA						
									Open	147828	MASS 765	NA						
									Open	147827	MARCY765	765	147833	MARCY T1	-0.02481	0.03100	624.3	45.0
									Open	147827	MARCY765	765	147833	MARCY T1	-0.02481	0.02695	543.3	39.6
									Open	156	MCY765SW	NA						
									Open	147838	MASS230B	230	147839	MOSES E	0.00000	-0.02898	10.7	552.2
									Open	147828	MASS 765	NA						
									Open	147837	MASS230A	230	147839	MOSES E	0.05511	0.00000	18.8	18.8
									Open	147828	MASS 765	NA						
									Open	158	MS765SW2	NA						
									Open	157	MS765SW1	NA						
									Decrease	bus 180001	BEA-DLX	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181319	CHAT G3	120	load	to357.0	MW	dispatch		
									Decrease	bus 180002	BEA-DL	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181419	CHAT G4	120	load	to357.0	MW	dispatch		
			59	-18688.1	-14085.3	-13818.1		L: Interface 60 C2PJM				-636.4	0.0	-0.03405		-0.03262	-550.2	59.4
									C:HQ-NY-765	777								
									Open	147827	MARCY765	NA						
									Open	147828	MASS 765	NA						
									Open	147827	MARCY765	765	147833	MARCY T1	-0.02481	0.03100	624.3	45.0
									Open	147827	MARCY765	765	147833	MARCY T1	-0.02481	0.02695	543.3	39.6
									Open	156	MCY765SW	NA						
									Open	147838	MASS230B	230	147839	MOSES E	0.00000	-0.02898	10.7	552.2
									Open	147828	MASS 765	NA						
									Open	147837	MASS230A	230	147839	MOSES E	0.05511	0.00000	18.8	18.8
									Open	147828	MASS 765	NA						
									Open	158	MS765SW2	NA						
									Open	157	MS765SW1	NA						
									Decrease	bus 180001	BEA-DLX	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181319	CHAT G3	120	load	to357.0	MW	dispatch		
									Decrease	bus 180002	BEA-DL	13.8	generation	by100.0	percent	dispatch		
									Set	bus 181419	CHAT G4	120	load	to357.0	MW	dispatch		
			60	-18683.4	-14080.6	-13813.4		L: Interface 61 PJMC2C				603.2	0.0	0.03228		0.03262	550.2	-59.2
									C:GEN:FITZF	560								
									Open	136155	SCRIBA	345	147830	JA FITZP	-0.00490	0.06771	-61.1	-1326.2
									Open	137200	EDIC	345	147830	JA FITZP	-0.07687	0.00000	43.4	43.4
									Remove unit 1 from bus 1	4								
			61	-18683.4	-14080.6	-13813.4		L: Interface 47 C-PJMWest				24.0	887.7	MW	dispatch			
												-603.2	0.0	-0.03228		-0.03262	-550.2	59.2
									C:GEN:FITZF	560								
									Open	136155	SCRIBA	345	147830	JA FITZP	0.00490	0.06771	-61.1	-1326.2
									Open	137200	EDIC	345	147830	JA FITZP	0.07687	0.00000	43.4	43.4
									Remove unit 1 from bus 1	4								
			62	-18683.4	-14080.6	-13813.4		L: Interface 48 PJMWest-C				24.0	887.7	MW	dispatch			
												603.2	0.0	0.03228		0.03262	550.2	-59.2
									C:GEN:FITZF	560								
									Open	136155	SCRIBA	345	147830	JA FITZP	-0.00490	0.06771	-61.1	-1326.2
									Open	137200	EDIC	345	147830	JA FITZP	-0.07687	0.00000	43.4	43.4
									Remove unit 1 from bus 1	4								
			63	-18683.4	-14080.6	-13813.4		L: Interface 60 C2PJM				24.0	887.7	MW	dispatch			
												-603.2	0.0	-0.03228		-0.03262	-550.2	59.2
									C:GEN:FITZF	560								
									Open	136155	SCRIBA	345	147830	JA FITZP	0.00490	0.06771	-61.1	-1326.2

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
						Remove unit from bus 1	4		Open 137200 EDIC	345	147830	JA FITZP		0.07687	0.00000	43.4	43.4	
			64	-18548.4	-13945.6	-13678.4		L: Interface 47 C-PJMWest	7797 JAFITZ1G	24.0	887.7	MW dispatch						
									C:128880 SH	401			-568.0	0.0	-0.03062	-550.2	54.8	
									Open 128880 SHMHVDC	192	129459	SHOREHAM		0.05477	0.03638	-325.8	-1000.5	
			65	-18548.4	-13945.6	-13678.4		L: Interface 61 PJMC2C	C:128880 SH	401			568.0	0.0	0.03062	550.2	-54.8	
									Open 128880 SHMHVDC	192	129459	SHOREHAM		-0.05477	0.03638	-325.8	-1000.5	
			66	-18548.4	-13945.6	-13678.4		L: Interface 48 PJMWest-C	C:128880 SH	401			568.0	0.0	0.03062	550.2	-54.8	
									Open 128880 SHMHVDC	192	129459	SHOREHAM		-0.05477	0.03638	-325.8	-1000.5	
			67	-18548.4	-13945.6	-13678.4		L: Interface 60 C2PJMC	C:128880 SH	401			-568.0	0.0	-0.03062	-550.2	54.8	
									Open 128880 SHMHVDC	192	129459	SHOREHAM		0.05477	0.03638	-325.8	-1000.5	
			68	-18175.7	-13572.9	-13305.8	*	L: Interface 48 PJMWest-C	C:129025 NR	506			568.0	0.0	0.03125	550.2	-42.6	
									Open 129025 NRTPGT2	22.0	129341	NRTHPRT1		-0.05542	0.02468	-320.9	-769.4	
			69	-18175.7	-13572.9	-13305.8	*	L: Interface 60 C2PJMC	C:129025 NR	506			-568.0	0.0	-0.03125	-550.2	42.6	
									Open 129025 NRTPGT2	22.0	129341	NRTHPRT1		0.05542	0.02468	-320.9	-769.4	
			70	-18175.7	-13572.9	-13305.8	*	L: Interface 47 C-PJMWest	C:129025 NR	506			-568.0	0.0	-0.03125	-550.2	42.6	
									Open 129025 NRTPGT2	22.0	129341	NRTHPRT1		0.05542	0.02468	-320.9	-769.4	
			71	-18175.7	-13572.9	-13305.8	*	L: Interface 61 PJMC2C	C:129025 NR	506			568.0	0.0	0.03125	550.2	-42.6	
									Open 129025 NRTPGT2	22.0	129341	NRTHPRT1		-0.05542	0.02468	-320.9	-769.4	
			7044	-13361.1	-8758.3	-8491.1		L: Interface 62 C2PJMW	C:ETHS/NWES	649			-516.3	0.0	-0.03864	-360.3	535.7	
									Open 130763 HILSD230	230	200675	E.TWANDA		-0.80840	-0.01768	113.5	349.7	
									Open 130836 N.WAV115	115	200676	E.SAYRE		-0.83286	-0.00790	39.9	145.5	
									Open 130807 GOUDY115	115	200680	LAUREL L		-0.85098	-0.00885	36.6	154.9	
			7045	-13361.1	-8758.3	-8491.1		L: Interface 63 PJMW2C	C:ETHS/NWES	649			516.3	0.0	0.03864	360.3	-535.7	
									Open 130763 HILSD230	230	200675	E.TWANDA		0.80840	-0.01768	113.5	349.7	
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.83286	-0.00790	39.9	145.5	
									Open 130807 GOUDY115	115	200680	LAUREL L		0.85098	-0.00885	36.6	154.9	
			7058	-9265	-4662.2	-4395.1		L: Interface 62 C2PJMW	C:SER:ETHS/	607			-462.8	0.0	-0.04995	-360.3	261.0	
									Open 130763 HILSD230	230	200675	E.TWANDA		-0.66730	-0.01768	113.5	277.3	
									Open 130836 N.WAV115	115	200676	E.SAYRE		-0.67167	-0.00790	39.9	113.1	
			7059	-9265	-4662.2	-4395.1		L: Interface 63 PJMW2C	C:SER:ETHS/	607			462.8	0.0	0.04995	360.3	-261.0	
									Open 130763 HILSD230	230	200675	E.TWANDA		0.66730	-0.01768	113.5	277.3	
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.67167	-0.00790	39.9	113.1	
			7060	-9250.2	-4647.4	-4380.3		L: Interface 63 PJMW2C	C:SER:C398/	606			461.8	0.0	0.04993	360.3	-260.0	
									Open 409 GROVER	230	200675	E.TWANDA		0.00111	0.00039	-15.5	-19.1	
									Open 130763 HILSD230	230	200675	E.TWANDA		0.66889	-0.01768	113.5	277.0	
									Open 381 TOWANDA	115	200675	E.TWANDA		0.01713	-0.00156	-52.8	-38.4	
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.66724	-0.00790	39.9	113.0	
			7061	-9250.2	-4647.4	-4380.3		L: Interface 62 C2PJMW	C:SER:C398/	606			-461.8	0.0	-0.04993	-360.3	260.0	
									Open 409 GROVER	230	200675	E.TWANDA		-0.00111	0.00039	-15.5	-19.1	
									Open 130763 HILSD230	230	200675	E.TWANDA		-0.66889	-0.01768	113.5	277.0	
									Open 381 TOWANDA	115	200675	E.TWANDA		-0.01713	-0.00156	-52.8	-38.4	
									Open 130836 N.WAV115	115	200676	E.SAYRE		-0.66724	-0.00790	39.9	113.0	
			7062	-8955.9	-4353.1	-4085.9		L: Interface 51 G-PJMEast	C:SIN:2801	679			273.2	0.0	0.03051	0.00000	-0.1	-0.1
									Open 126262 BUCHANAN N	345	126267	E.VIEW 2N		0.19888	0.13415	1136.0	-65.4	
									Open 126267 E.VIEW 2N	345	126298	SPRBROOK		0.02430	0.13712	934.2	-293.9	
									Open 126267 E.VIEW 2N	345	126378	EASTVIEW		0.38164	0.00000	1.9	1.9	
									Open 126262 BUCHANAN N	345	126360	BUCHNTA5		0.17497	0.00285	137.1	111.6	
			7063	-8955.9	-4353.1	-4085.9		L: Interface 52 PJMEast-G	C:SIN:2801	679			-273.2	0.0	-0.03051	0.00000	0.1	0.1

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:SIN:2801	679							
									Open 126262	BUCHANAN N	345	126267 E VIEW 2N		-0.19888	0.13415	1136.0	-65.4
									Open 126267	E VIEW 2N	345	126298 SPRBROOK		-0.02430	0.13712	934.2	-293.9
									Open 126267	E VIEW 2N	345	126378 EASTVIEW		-0.38164	0.00000	1.9	1.9
									Open 126262	BUCHANAN N	345	126360 BUCHNTA5		-0.17497	0.00285	137.1	111.6
			7064	-8423.7	-3820.9	-3553.7		L: Interface 63 PJMW2C			441.8	0.0	0.05245		0.06705	360.3	-204.6
									C:ETHS/LLGD	650							
									Open 130763	HILSD230	230	200675 E.TWANDA		0.52480	-0.01768	113.5	262.4
			7065	-8423.7	-3820.9	-3553.7		L: Interface 62 C2PJMW			-441.8	0.0	-0.05245		-0.06705	-360.3	204.6
									C:ETHS/LLGD	650							
									Open 130763	HILSD230	230	200675 E.TWANDA		-0.52480	-0.01768	113.5	262.4
									Open 130807	GOUDY115	115	200680 LAUREL L		0.60167	-0.00885	36.6	111.2
			7066	-7926.7	-3323.9	-3056.7		L: Interface 63 PJMW2C			531.5	0.0	0.06705		0.06705	360.3	-171.3
									C:GEN:9 MI	562							
									6700 9M PT 2G	25.0	1198.7 MW dispatch						
			7067	-7926.7	-3323.9	-3056.7		L: Interface 62 C2PJMW			-531.5	0.0	-0.06705		-0.06705	-360.3	171.3
									C:GEN:9 MI	562							
									6700 9M PT 2G	25.0	1198.7 MW dispatch						
			7068	-7646.8	-3044	-2776.8		L: Interface 62 C2PJMW			-531.0	0.0	-0.06944		-0.06705	-360.3	152.5
									C:HQ-NY-765	777							
									Open 147827	MARCY765 NA							
									Open 147828	MASS 765 NA							
									Open 147827	MARCY765	765	147833 MARCY T1		-0.04110	0.03100	624.3	387.2
									Open 147827	MARCY765	765	147833 MARCY T1		-0.04110	0.02695	543.3	337.2
									Open 156	MCY765SW NA							
									Open 147838	MASS230B	230	147839 MOSES E		0.00000	-0.02898	10.7	232.3
									Open 147828	MASS 765 NA							
									Open 147837	MASS230A	230	147839 MOSES E		0.11493	0.00000	18.8	18.8
									Open 147828	MASS 765 NA							
									Open 158	MS765SW2 NA							
									Open 157	MS765SW1 NA							
									Decrease bus 180001	BEA-DLX	13.8	generation by100.0 percent dispatch					
									Set bus 181319	CHAT G3	120	load to357.0 MW dispatch					
									Decrease bus 180002	BEA-DL	13.8	generation by100.0 percent dispatch					
									Set bus 181419	CHAT G4	120	load to357.0 MW dispatch					
			7069	-7646.8	-3044	-2776.8		L: Interface 63 PJMW2C			531.0	0.0	0.06944		0.06705	360.3	-152.5
									C:HQ-NY-765	777							
									Open 147827	MARCY765 NA							
									Open 147828	MASS 765 NA							
									Open 147827	MARCY765	765	147833 MARCY T1		0.04110	0.03100	624.3	387.2
									Open 147827	MARCY765	765	147833 MARCY T1		0.04110	0.02695	543.3	337.2
									Open 156	MCY765SW NA							
									Open 147838	MASS230B	230	147839 MOSES E		0.00000	-0.02898	10.7	232.3
									Open 147828	MASS 765 NA							
									Open 147837	MASS230A	230	147839 MOSES E		-0.11493	0.00000	18.8	18.8
									Open 147828	MASS 765 NA							
									Open 158	MS765SW2 NA							
									Open 157	MS765SW1 NA							
									Decrease bus 180001	BEA-DLX	13.8	generation by100.0 percent dispatch					
									Set bus 181319	CHAT G3	120	load to357.0 MW dispatch					
									Decrease bus 180002	BEA-DL	13.8	generation by100.0 percent dispatch					
									Set bus 181419	CHAT G4	120	load to357.0 MW dispatch					
			7070	-7373	-2770.2	-2503		L: Interface 62 C2PJMW			-455.8	0.0	-0.06182		-0.06705	-360.3	134.1
									C:SER:HC-SR	601							
									Open 135398	SW345	345	200769 HOMER CY		0.23846	0.01771	-379.1	-509.7
									Open 135277	FALCONER	115	200579 WARREN		0.14049	0.00721	-36.4	-89.6
			7071	-7373	-2770.2	-2503		L: Interface 63 PJMW2C			455.8	0.0	0.06182		0.06705	360.3	-134.1
									C:SER:HC-SR	601							
									Open 135398	SW345	345	200769 HOMER CY		-0.23846	0.01771	-379.1	-509.7
									Open 135277	FALCONER	115	200579 WARREN		-0.14049	0.00721	-36.4	-89.6
			7072	-7112.6	-2509.8	-2242.7		L: Interface 62 C2PJMW			-468.0	0.0	-0.06580		-0.06705	-360.3	116.7
									C:GEN:FITZP	560							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 136155 SCRIBA	345	147830	JA FITZP		0.01847	0.06771	-61.1	-542.7
									Open 137200 EDIC	345	147830	JA FITZP		0.15063	0.00000	43.4	43.4
									7797 JAFITZ1G	24.0	887.7	MW dispatch					
			7073	-7112.6	-2509.8	-2242.7		L: Interface 63 PJMW2C			468.0	0.0	0.06580		0.06705	360.3	-116.7
									C:GEN:FITZP	560							
									Open 136155 SCRIBA	345	147830	JA FITZP		-0.01847	0.06771	-61.1	-542.7
									Open 137200 EDIC	345	147830	JA FITZP		-0.15063	0.00000	43.4	43.4
									7797 JAFITZ1G	24.0	887.7	MW dispatch					
			7074	-7071.7	-2468.9	-2201.7		L: Interface 62 C2PJMW			-474.2	0.0	-0.06705		-0.06705	-360.3	113.9
									C:GEN:SEAB&	576							
									Open 100508 SANDB115	115	100509	SB RCTOR		-0.00001	0.00000	-0.1	-0.1
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			7075	-7071.7	-2468.9	-2201.7		L: Interface 63 PJMW2C			474.2	0.0	0.06705		0.06705	360.3	-113.9
									C:GEN:SEAB&	576							
									Open 100508 SANDB115	115	100509	SB RCTOR		0.00001	0.00000	-0.1	-0.1
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			7076	-7071.7	-2468.9	-2201.7	*	L: Interface 62 C2PJMW			-474.2	0.0	-0.06705		-0.06705	-360.3	113.9
									C:GEN:SEABR	574							
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			7077	-7071.7	-2468.9	-2201.7	*	L: Interface 63 PJMW2C			474.2	0.0	0.06705		0.06705	360.3	-113.9
									C:GEN:SEABR	574							
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			7168	-5755.5	-1152.7	-885.5		L: Interface 52 PJMEast-G			240.2	0.0	-0.04174		0.00000	0.1	0.1
									C:SIN:4401	684							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.21453	0.19456	1119.3	-0.4
											240.2	0.0	0.04174		0.00000	0.1	0.1
									C:125001 RO	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.21453	0.19456	1119.3	-0.4
											-240.2	0.0	-0.04174		0.00000	-0.1	-0.1
									C:125001 RO	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		-0.21453	0.19456	1119.3	-0.4
											-240.2	0.0	-0.04174		0.00000	-0.1	-0.1
									C:SIN:4401	684							
									Open 125001 ROCK TAV	345	126297	RAMAPO		-0.21453	0.19456	1119.3	-0.4
			10590	-4472.8	129.9	397.1		L: Interface 55 PJME-NYEnoRE			1453.7	1287.0	0.03726		0.00000	1299.9	1299.9
									C:130753 FR	200							
									Open 130753 FRASR345	345	130755	OAKDL345		-0.26927	-0.13837	-570.9	47.9
											-1453.7	-1287.0	-0.03726		0.00000	-1299.9	-1299.9
									C:130753 FR	200							
									Open 130753 FRASR345	345	130755	OAKDL345		0.26927	-0.13837	-570.9	47.9
											-136.1	0.0	-0.03059		0.00000	0.1	0.1
									C:126298 SP	131							
									Open 126298 SPRBROOK	345	126517	REACM51		-0.20617	0.14839	660.5	0.4
											136.1	0.0	0.03059		0.00000	-0.1	-0.1
			10593	-4448.2	154.6	421.8		L: Interface 51 G-PJMEast									
									C:126298 SP	132							
									Open 126298 SPRBROOK	345	126518	REACM52		0.20617	0.14839	660.5	0.4
											-136.1	0.0	-0.03059		0.00000	0.1	0.1
									C:126298 SP	132							
									Open 126298 SPRBROOK	345	126518	REACM52		-0.20617	0.14839	660.5	0.4
											136.1	0.0	0.03059		0.00000	-0.1	-0.1
									C:126298 SP	131							
									Open 126298 SPRBROOK	345	126517	REACM51		0.20617	0.14839	660.5	0.4
											-135.4	0.0	-0.03059		0.00000	0.1	0.1
									C:126304 W	365							
									Open 126304 W 49 ST	345	126517	REACM51		0.20617	-0.14839	-657.2	-0.4
											135.4	0.0	0.03059		0.00000	-0.1	-0.1
									C:126304 W	366							
									Open 126304 W 49 ST	345	126518	REACM52		-0.20617	-0.14839	-657.2	-0.4
											-135.4	0.0	-0.03059		0.00000	0.1	0.1
									C:126304 W	366							
									Open 126304 W 49 ST	345	126518	REACM52		0.20617	-0.14839	-657.2	-0.4
											135.4	0.0	0.03059		0.00000	-0.1	-0.1
									C:126304 W	365							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10600	-4110.7	492.1	759.3		L: Interface 51 G-PJMEast	Open 126304	W 49 ST	345	126517 REACM51		-0.20617	-0.14839	-657.2	-0.4
											167.2	0.0	0.04067		0.00000	-0.1	-0.1
									C:SIN:2301		677						
									Open 126263	BUCHANAN S	345	126290 LADENTWN		-0.26721	-0.15041	-540.0	78.3
									Open 126262	BUCHANAN N	345	126360 BUCHNTA5		0.16750	0.00285	137.1	125.4
			10601	-4110.7	492.1	759.3		L: Interface 52 PJMEast-G			-167.2	0.0	-0.04067		0.00000	0.1	0.1
									C:SIN:2301		677						
									Open 126263	BUCHANAN S	345	126290 LADENTWN		0.26721	-0.15041	-540.0	78.3
									Open 126262	BUCHANAN N	345	126360 BUCHNTA5		-0.16750	0.00285	137.1	125.4
			10602	-3588	1014.8	1282		L: Interface 52 PJMEast-G			-138.9	0.0	-0.03870		0.00000	0.1	0.1
									C:126263 BU		86						
									Open 126263	BUCHANAN S	345	126290 LADENTWN		0.25731	-0.15041	-540.0	-0.4
			10603	-3588	1014.8	1282		L: Interface 51 G-PJMEast			138.9	0.0	0.03870		0.00000	-0.1	-0.1
									C:126263 BU		86						
									Open 126263	BUCHANAN S	345	126290 LADENTWN		-0.25731	-0.15041	-540.0	-0.4
			10604	-1695.6	2907.2	3174.4	*	L: Interface 51 G-PJMEast			51.1	0.0	0.03011		0.00000	-0.1	-0.1
									C:SER:Y94&T		586						
									Open 126262	BUCHANAN N	345	126297 RAMAPO		-0.22074	-0.13700	-260.0	-27.7
									Open 126262	BUCHANAN N	345	126360 BUCHNTA5		-0.04561	0.00285	137.1	132.3
			10605	-1695.6	2907.2	3174.4	*	L: Interface 52 PJMEast-G			-51.1	0.0	-0.03011		0.00000	0.1	0.1
									C:SER:Y94&T		586						
									Open 126262	BUCHANAN N	345	126297 RAMAPO		0.22074	-0.13700	-260.0	-27.7
									Open 126262	BUCHANAN N	345	126360 BUCHNTA5		0.04561	0.00285	137.1	132.3
			10606	-433.7	4169.1	4436.3		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1833.4	-1725.0	-0.24988		-0.17565	-1284.4	-1208.2
									C:126294 PL		121						
									Open 126294	PLTVLLEY	345	137455 ATHENS		0.44120	-0.16824	-1244.2	-1171.3
			10607	-288.5	4314.3	4581.5		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1795.3	-1725.0	-0.24360		-0.16824	-1244.2	-1195.7
									C:126294 PL		120						
									Open 126294	PLTVLLEY	345	137451 LEEDS 3		0.42902	-0.17565	-1284.4	-1233.8
			10608	-14.7	4588.1	4855.2		L:146758 CHESTER 138 146771 SHOEM138	138 1		-317.8	-317.0	-0.05577		-0.03109	-175.8	-175.4
									C:125001 RO		7						
									Open 125001	ROCK TAV	345	126297 RAMAPO		-0.12684	0.19456	1119.3	1116.5
			10609	-14.7	4588.1	4855.2		L:146758 CHESTER 138 146771 SHOEM138	138 1		-317.8	-317.0	-0.05577		-0.03109	-175.8	-175.4
									C:SIN:4401		684						
									Open 125001	ROCK TAV	345	126297 RAMAPO		-0.12684	0.19456	1119.3	1116.5
			10610	265.2	4868	5135.2		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1284.4	-1331.0	-0.17565				
									Base Case								
			10611	309.8	4912.6	5179.8		L:126266 DUNWODIE 345 128835 SHORE RD	345 1		474.7	599.0	0.40122				
									Base Case								
			10612	387.8	4990.6	5257.7		L: Interface 14 Leeds-PV			2528.6	2662.0	0.34389				
									Base Case								
			10613	515.8	5118.5	5385.7		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1244.2	-1331.0	-0.16824				
									Base Case								
			10614	621.4	5224.2	5491.4		L:146758 CHESTER 138 146773 SGRLF138	138 1		282.3	317.0	0.05577		0.03109	140.4	159.7
									C:125001 RO		7						
									Open 125001	ROCK TAV	345	126297 RAMAPO		0.12684	0.19456	1119.3	1240.2
			10615	621.4	5224.2	5491.4		L:146758 CHESTER 138 146773 SGRLF138	138 1		282.3	317.0	0.05577		0.03109	140.4	159.7
									C:SIN:4401		684						
									Open 125001	ROCK TAV	345	126297 RAMAPO		0.12684	0.19456	1119.3	1240.2
			10616	683.4	5286.2	5553.4		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1581.7	-1725.0	-0.20964		-0.17565	-1284.4	-1404.5
									C:125000 HU		3						
									Open 125000	HURLEY 3	345	137451 LEEDS 3		0.32995	-0.10300	-901.1	-971.5
			10617	712.6	5315.4	5582.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1569.7	-1725.0	-0.21794		-0.17565	-1284.4	-1409.6
									C:125002 RO		10						
									Open 125002	ROSETON	345	126281 FISHKILL		-0.18921	0.22348	1507.8	1667.0
			10618	712.6	5315.4	5582.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1569.7	-1725.0	-0.21794		-0.17565	-1284.4	-1409.6
									C:SIN:4301		683						
									Open 125002	ROSETON	345	126281 FISHKILL		-0.18921	0.22348	1507.8	1667.0
			10619	831.5	5434.3	5701.5		L: Interface 14 Leeds-PV			3108.9	3450.0	0.41022		0.34389	2528.6	2814.6
									C:125000 HU		3						
									Open 125000	HURLEY 3	345	137451 LEEDS 3		-0.64394	-0.10300	-901.1	-986.7
			10620	855	5457.8	5725		L: Interface 14 Leeds-PV			3085.4	3450.0	0.42641		0.34389	2528.6	2822.7
									C:125002 RO		10						

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10621	855	5457.8	5725		L: Interface 14 Leeds-PV	Open 125002 ROSETON	345	126281 FISHKILL	0.36926	0.22348	1507.8	1698.9		
									C:SIN:4301	683	3085.4	3450.0	0.42641		0.34389	2528.6	2822.7
									Open 125002 ROSETON	345	126281 FISHKILL	0.36926	0.22348	1507.8	1698.9		
			10622	868.4	5471.2	5738.4		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		651.4	783.0	0.15154				
									Base Case								
			10623	868.7	5471.5	5738.7		L:126266 DUNWODIE 345 126600 REAC71	345 SR		651.4	783.0	0.15154				
									Base Case								
			10624	904.5	5507.3	5774.5		L:126266 DUNWODIE 345 126601 REAC72	345 SR		646.9	783.0	0.15047				
									Base Case								
			10625	904.5	5507.3	5774.5		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		646.9	783.0	0.15047				
									Base Case								
			10626	924.1	5526.9	5794.1		L: Interface 41 I-to-K			936.2	1307.0	0.40122				
									Base Case								
			10627	924.1	5526.9	5794.1		L: Interface 42 K-to-I			-936.2	-1307.0	-0.40122				
									Base Case								
			10628	986.3	5589.1	5856.3		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1527.2	-1725.0	-0.20058	-0.16824	-1244.2	-1410.2	
									C:125000 HU	3							
			10629	1003.9	5606.7	5873.9		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1515.7	-1725.0	-0.20848	-0.16824	-1244.2	-1413.1	
									C:125002 RO	10							
									Open 125002 ROSETON	345	126281 FISHKILL	-0.18006	0.22348	1507.8	1732.1		
			10630	1003.9	5606.7	5873.9		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1515.7	-1725.0	-0.20848	-0.16824	-1244.2	-1413.1	
									C:SIN:4301	683							
									Open 125002 ROSETON	345	126281 FISHKILL	-0.18006	0.22348	1507.8	1732.1		
			10631	1074.5	5677.3	5944.4		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1476.9	-1725.0	-0.23087	-0.17565	-1284.4	-1473.2	
									C:137451 LE	6							
									Open 137451 LEEDS 3	345	137455 ATHENS	-0.44120	0.12516	436.3	570.8		
			10632	1127.9	5730.6	5997.8		L: Interface 15 ItoNYC345			2612.7	3288.0	0.59878				
									Base Case								
			10633	1135.8	5738.6	6005.8		L:146758 CHESTER 138 146771 SHOEM138	138 1		-261.3	-317.0	-0.04905	-0.03109	-175.8	-211.2	
									C:125001 RO	9							
									Open 125001 ROCK TAV	345	146754 MDTN TAP	0.19956	-0.08998	-428.2	-530.4		
			10634	1173	5775.8	6043		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-626.5	-707.0	-0.06864	-0.03733	-446.4	-490.1	
									C:125001 RO	7							
									Open 125001 ROCK TAV	345	126297 RAMAPO	-0.16093	0.19456	1119.3	1347.6		
			10635	1173	5775.8	6043		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-626.5	-707.0	-0.06864	-0.03733	-446.4	-490.1	
									C:SIN:4401	684							
									Open 125001 ROCK TAV	345	126297 RAMAPO	-0.16093	0.19456	1119.3	1347.6		
			10636	1195.6	5798.4	6065.6		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1478.3	-1725.0	-0.20633	-0.17565	-1284.4	-1494.4	
									C:125000 HU	1							
									Open 125000 HURLEY 3	345	125002 ROSETON	-0.29336	0.10458	660.9	786.0		
			10637	1218.5	5821.3	6088.5		L:128835 SHORE RD 345 129293 SHORE RD	138 1		237.1	482.0	0.20097				
									Base Case								
			10638	1227.1	5829.8	6097		L:128835 SHORE RD 345 129293 SHORE RD	138 2		236.3	482.0	0.20025				
									Base Case								
			NA	1342.1	5944.9	6212.1	R	L: Interface 49 C-PJMCentral			52.6	0.0	-0.03916	-0.03444	189.9	143.7	
									C:SER:HCWC/	608							
									Open 130757 WATRC345	345	200769 HOMER CY	0.22550	-0.03262	-550.2	-594.0		
									Open 130836 N.WAV115	115	200676 E.SAYRE	-0.33372	-0.00790	39.9	29.3		
			10639	1342.1	5944.9	6212.1		L: Interface 50 PJMCentral-C			-52.6	0.0	0.03916	0.03444	-189.9	-143.7	
									C:SER:HCWC/	608							
									Open 130757 WATRC345	345	200769 HOMER CY	-0.22550	-0.03262	-550.2	-594.0		
									Open 130836 N.WAV115	115	200676 E.SAYRE	0.33372	-0.00790	39.9	29.3		
			10640	1342.1	5944.9	6212.1		L: Interface 49 C-PJMCentral			52.6	0.0	-0.03916	-0.03444	189.9	143.7	
									C:SER:HCWC/	608							
									Open 130757 WATRC345	345	200769 HOMER CY	0.22550	-0.03262	-550.2	-594.0		
									Open 130836 N.WAV115	115	200676 E.SAYRE	-0.33372	-0.00790	39.9	29.3		
			NA	1342.1	5944.9	6212.1	R	L: Interface 50 PJMCentral-C			-52.6	0.0	0.03916	0.03444	-189.9	-143.7	
									C:SER:HCWC/	608							
									Open 130757 WATRC345	345	200769 HOMER CY	-0.22550	-0.03262	-550.2	-594.0		
									Open 130836 N.WAV115	115	200676 E.SAYRE	0.33372	-0.00790	39.9	29.3		
			10643	1344.7	5947.5	6214.7		L: Interface 14 Leeds-PV			2907.1	3450.0	0.40376	0.34389	2528.6	2991.1	

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:125000 HU	1							
									Open 125000 HURLEY 3	345	125002 ROSETON			0.57253	0.10458	660.9	801.6
		NA	1348.7	5951.5	6218.7	R	L: Interface 50 PJMCentral-C		C:SER:HC-WC	602		-56.3	0.0	0.04171	0.03444	-189.9	-143.5
									Open 130757 WATRC345	345	200769 HOMER CY			-0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579 WARREN			-0.06948	0.00721	-36.4	-26.7
		10644	1348.7	5951.5	6218.7		L: Interface 49 C-PJMCentral		C:SER:HC-WC	602		56.3	0.0	-0.04171	-0.03444	189.9	143.5
									Open 130757 WATRC345	345	200769 HOMER CY			0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579 WARREN			0.06948	0.00721	-36.4	-26.7
		NA	1348.7	5951.5	6218.7	R	L: Interface 49 C-PJMCentral		C:SER:HC-WC	602		56.3	0.0	-0.04171	-0.03444	189.9	143.5
									Open 130757 WATRC345	345	200769 HOMER CY			0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579 WARREN			0.06948	0.00721	-36.4	-26.7
		10645	1348.7	5951.5	6218.7		L: Interface 50 PJMCentral-C		C:SER:HC-WC	602		-56.3	0.0	0.04171	0.03444	-189.9	-143.5
									Open 130757 WATRC345	345	200769 HOMER CY			-0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579 WARREN			-0.06948	0.00721	-36.4	-26.7
		10648	1351.2	5954	6221.2		L:126298 SPRBROOK 345 126517 REACM51	345 SR		660.5	861.0	0.14839					
									Base Case								
		10649	1351.2	5954	6221.2		L:126298 SPRBROOK 345 126518 REACM52	345 SR		660.5	861.0	0.14839					
									Base Case								
		10650	1373.6	5976.3	6243.5		L:126304 W 49 ST 345 126518 REACM52	345 2		-657.2	-861.0	-0.14839					
									Base Case								
		10651	1373.6	5976.3	6243.5		L:126304 W 49 ST 345 126517 REACM51	345 1		-657.2	-861.0	-0.14839					
									Base Case								
		10652	1386	5988.8	6256		L: Interface 11 DUN-SOUTH OP			4870.0	6256.0	1.00000					
									Base Case								
		10653	1403.4	6006.2	6273.4		L: Interface 49 C-PJMCentral			59.2	0.0	-0.04219			-0.03444	189.9	141.6
									C:130757 WA	373							
									Open 130757 WATRC345	345	200769 HOMER CY			0.23761	-0.03262	-550.2	-596.0
		NA	1403.4	6006.2	6273.4	R	L: Interface 49 C-PJMCentral		C:130757 WA	373		59.2	0.0	-0.04219	-0.03444	189.9	141.6
									Open 130757 WATRC345	345	200769 HOMER CY			0.23761	-0.03262	-550.2	-596.0
		10654	1403.4	6006.2	6273.4		L: Interface 50 PJMCentral-C		C:130757 WA	373		-59.2	0.0	0.04219	0.03444	-189.9	-141.6
									Open 130757 WATRC345	345	200769 HOMER CY			-0.23761	-0.03262	-550.2	-596.0
									C:130757 WA	373		-59.2	0.0	0.04219	0.03444	-189.9	-141.6
		NA	1403.4	6006.2	6273.4	R	L: Interface 50 PJMCentral-C		C:130757 WA	373		-59.2	0.0	0.04219	0.03444	-189.9	-141.6
									Open 130757 WATRC345	345	200769 HOMER CY			-0.23761	-0.03262	-550.2	-596.0
		10657	1441	6043.8	6311		L:130750 COOPC345 345 130753 FRASR345	345 1		-997.0	-1207.0	-0.14570					
									Base Case								
		10658	1450.7	6053.5	6320.7		L:128835 SHORE RD 345 129293 SHORE RD	138 1		345.4	770.0	0.29271			0.20097	237.1	528.7
									C:128835 SH	397							
									Open 128835 SHORE RD	345	129293 SHORE RD			0.45814	0.20025	236.3	526.8
		10659	1455.8	6058.6	6325.7		L:128835 SHORE RD 345 129293 SHORE RD	138 2		344.7	770.0	0.29215			0.20025	236.3	527.8
									C:128835 SH	396							
									Open 128835 SHORE RD	345	129293 SHORE RD			0.45726	0.20097	237.1	529.7
		10660	1474.2	6077	6344.2		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1433.9	-1725.0	-0.19749			-0.17565	-1284.4	-1543.4
									C:130750 CO	192							
									Open 130750 COOPC345	345	130753 FRASR345			0.14988	-0.14570	-997.0	-1211.8
		10661	1500.5	6103.3	6370.5		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1428.7	-1725.0	-0.19743			-0.16824	-1244.2	-1496.7
									C:125000 HU	1							
									Open 125000 HURLEY 3	345	125002 ROSETON			-0.27917	0.10458	660.9	817.9
		10662	1629.2	6232	6499.1		L: Interface 14 Leeds-PV		C:130750 CO	192		2820.3	3450.0	0.38651	0.34389	2528.6	3088.9
									Open 130750 COOPC345	345	130753 FRASR345			-0.29252	-0.14570	-997.0	-1234.4
		10663	1656.6	6259.4	6526.6		L:137451 LEEDS 3 345 137452 N.SCOT77	345 1		-1355.3	-1724.0	-0.22257			-0.14255	-867.6	-1103.8
									C:137451 LE	5							
									Open 137451 LEEDS 3	345	137453 N.SCOT99			0.56507	-0.14160	-863.0	-1097.6
		10664	1674.7	6277.5	6544.7		L:137451 LEEDS 3 345 137453 N.SCOT99	345 2		-1352.2	-1724.0	-0.22198			-0.14160	-863.0	-1100.2
									C:137451 LE	4							
									Open 137451 LEEDS 3	345	137452 N.SCOT77			0.56387	-0.14255	-867.6	-1106.4





From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00048	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.48174	0.00000	-460.2	-460.2
			10679	1793.3	6396.1	6663.3		L:126266 DUNWODIE 345 128835 SHORE RD	345	1		696.5	1416.0	0.40122	0.40122	474.7	1194.2
									C:SPRN-BRK-		778						
									Open 126298	SPRBROOK	345	126299	REACBUS	0.51715	0.00000	0.0	0.0
									Open 126299	REACBUS	NA						
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00048	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.48174	0.00000	-460.2	-460.2
			10680	1845.6	6448.4	6715.6		L: Interface 32 F-To-G				3723.9	4643.0	0.49801			
									Base Case								
			10681	1847.2	6450	6717.2		L:126266 DUNWODIE 345 128835 SHORE RD	345	1		674.9	1416.0	0.40122	0.40122	474.7	1215.8
									C:128842 NE		398						
									Open 128842	NEPTCONV	345	128847	NWRBG	-0.30042	0.00000	-666.3	-666.3
			10682	1859.1	6461.9	6729.1		L:146758 CHESTER 138 146773 SGRLP138	138	1		225.8	317.0	0.04905	0.03109	140.4	198.2
									C:125001 RO		9						
									Open 125001	ROCK TAV	345	146754	MDTN TAP	-0.19956	-0.08998	-428.2	-595.5
			10683	1898.2	6501	6768.2		L:146758 CHESTER 138 146771 SHOEM138	138	1		-239.9	-317.0	-0.04059	-0.03109	-175.8	-234.9
									C:SIN:4301		683						
									Open 125002	ROSETON	345	126281	FISHKILL	-0.04251	0.22348	1507.8	1932.0
			10684	1898.2	6501	6768.2		L:146758 CHESTER 138 146771 SHOEM138	138	1		-239.9	-317.0	-0.04059	-0.03109	-175.8	-234.9
									C:125002 RO		10						
									Open 125002	ROSETON	345	126281	FISHKILL	-0.04251	0.22348	1507.8	1932.0
			10685	1909.2	6512	6779.2		L:126481 RAINEY8W 138 126562 8W DUM	138	1		53.7	-256.0	-0.16223			
									Base Case								
			10686	1909.2	6512	6779.2		L:126295 RAINEY 345 126562 8W DUM	138	8		-53.7	256.0	0.16223			
									Base Case								
			10687	1909.8	6512.6	6779.7		L:126481 RAINEY8W 138 126507 VERNON-W	138	1		-53.8	256.0	0.16223			
									Base Case								
			10688	1911.7	6514.5	6781.7		L:125002 ROSETON 345 126281 FISHKILL	345	1		1507.8	1935.0	0.22348			
									Base Case								
			10689	1956.2	6558.9	6826.1		L: Interface 14 Leeds-PV				2752.2	3450.0	0.35672	0.34389	2528.6	3201.4
									C:SIN:1301		669						
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.08531	0.07521	786.5	933.6
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.08531	0.07521	786.5	933.6
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.08324	0.00000	39.8	39.8
									Open 126263	BUCHANAN	NA						
									Open 147798	IP#3 GEN	NA						
									Open 147798	IP#3 GEN	NA						
									Remove unit 1 from bus 1		4						
			10690	1956.2	6558.9	6826.1		L: Interface 14 Leeds-PV				2752.2	3450.0	0.35672	0.34389	2528.6	3201.4
									C:SIN:1201		668						
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.08531	0.07521	786.5	933.6
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.08531	0.07521	786.5	933.6
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.08324	0.00000	39.8	39.8
									Open 126263	BUCHANAN	NA						
									Open 147798	IP#3 GEN	NA						
									Open 147798	IP#3 GEN	NA						
									Remove unit 1 from bus 1		4						
			10691	1985.7	6588.5	6855.7	*	L:126294 PLTVLLEY 345 137451 LEEDS 3	345	2		-1356.6	-1725.0	-0.18552	-0.17565	-1284.4	-1633.2
									C:SER:CMT34		594						
									Open 130750	COOPC345	345	146754	MDTN TAP	-0.09360	0.12731	875.2	1128.0
									Open 125001	ROCK TAV	345	146754	MDTN TAP	-0.02274	-0.08998	-428.2	-606.9
			10696	2047.9	6650.7	6917.9		L:126480 RAINEY8E 138 126561 8E DUM	138	1		4.7	-342.0	-0.16929	-0.16929	98.6	-248.1
									C:GEN:NYPA		553						
									Remove unit 1 from bus 1		4						
									7788 NYPACCI/2GT218.0		160.0						
									Remove unit 1 from bus 1		4						
									7789 NYPACCI/2STG18.0		180.0						
									Remove unit 1 from bus 1		4						
									7790 NYPACCI/2GT118.0		160.0						
			10697	2047.9	6650.7	6917.9		L:126295 RAINEY 345 126561 8E DUM	138	8		-4.7	342.0	0.16929	0.16929	-98.6	248.1

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									C:GEN:NYPA	553								
									7788 NYPACCI/2GT218.0	160.0	MW	dispatch						
									7789 NYPACCI/2STG18.0	180.0	MW	dispatch						
									7790 NYPACCI/2GT118.0	160.0	MW	dispatch						
			10698	2049.8	6652.6	6919.8		L:130750 COOPC345 345 130753 FRASR345	345 1				-1318.2	-1703.0	-0.18771	-0.14570	-997.0	-1295.7
									C:130750 CO	196								
									Open 130750 COOPC345	345	147833	MARCY T1	0.43312		-0.09699	-741.6	-940.4	
			10699	2051.6	6654.4	6921.6		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1				-5.3	342.0	0.16929	0.16929	-99.2	248.1
									C:GEN:NYPA	553								
									7788 NYPACCI/2GT218.0	160.0	MW	dispatch						
									7789 NYPACCI/2STG18.0	180.0	MW	dispatch						
									7790 NYPACCI/2GT118.0	160.0	MW	dispatch						
			10700	2056.4	6659.2	6926.4		L:128835 SHORE RD 345 129293 SHORE RD	138 1				356.7	770.0	0.20097	0.20097	237.1	650.4
									C:126299 RE	133								
									Open 126299 REACBUS	345	147857	DVNPT NK	0.25916	0.00000	461.5	461.5		
			10701	2056.9	6659.7	6926.8		L:128835 SHORE RD 345 129293 SHORE RD	138 1				356.6	770.0	0.20097	0.20097	237.1	650.5
									C:128830 HM	372								
									Open 128830 HMP HRBR	345	147857	DVNPT NK	-0.25916	0.00000	-461.2	-461.2		
			10703	2058	6660.8	6928		L:128835 SHORE RD 345 129293 SHORE RD	138 1				356.4	770.0	0.20097	0.20097	237.1	650.7
									C:128824 EG	395								
									Open 128824 EGC DUM	345	128830	HMP HRBR	-0.25916	0.00000	-460.3	-460.3		
			10704	2061.1	6663.9	6931.1		L:126481 RAINNEY8W 138 126562 8W DUM	138 1				-37.6	-372.0	-0.16223	-0.16223	53.7	-280.6
									C:GEN:NYPA	553								
									7788 NYPACCI/2GT218.0	160.0	MW	dispatch						
									7789 NYPACCI/2STG18.0	180.0	MW	dispatch						
									7790 NYPACCI/2GT118.0	160.0	MW	dispatch						
			10705	2061.1	6663.9	6931.1		L:126295 RAINNEY 345 126562 8W DUM	138 8				37.6	372.0	0.16223	0.16223	-53.7	280.6
									C:GEN:NYPA	553								
									7788 NYPACCI/2GT218.0	160.0	MW	dispatch						
									7789 NYPACCI/2STG18.0	180.0	MW	dispatch						
									7790 NYPACCI/2GT118.0	160.0	MW	dispatch						
			10706	2061.6	6664.4	6931.6		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1				37.5	372.0	0.16223	0.16223	-53.8	280.6
									C:GEN:NYPA	553								
									7788 NYPACCI/2GT218.0	160.0	MW	dispatch						
									7789 NYPACCI/2STG18.0	180.0	MW	dispatch						
									7790 NYPACCI/2GT118.0	160.0	MW	dispatch						
			10707	2068.5	6671.3	6938.5		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1				-99.2	251.0	0.16929			
									Base Case									
			10708	2068.8	6671.6	6938.8		L: Interface 10 NYC Cable					4220.2	5459.0	0.59878			
									Base Case									
			10709	2069.3	6672.1	6939.3		L: Interface 28 LIPA Import					1742.0	2497.0	0.36485			
									Base Case									
			10710	2069.3	6672.1	6939.3		L: Interface 64 LIPA Export					-1742.0	-2497.0	-0.36485			
									Base Case									
			10711	2070.1	6672.9	6940		L:128835 SHORE RD 345 129293 SHORE RD	138 2				355.5	770.0	0.20025	0.20025	236.3	650.8
									C:126299 RE	133								
									Open 126299 REACBUS	345	147857	DVNPT NK	0.25824	0.00000	461.5	461.5		
			10712	2070.5	6673.3	6940.5		L:128835 SHORE RD 345 129293 SHORE RD	138 2				355.4	770.0	0.20025	0.20025	236.3	650.9
									C:128830 HM	372								
									Open 128830 HMP HRBR	345	147857	DVNPT NK	-0.25824	0.00000	-461.2	-461.2		
			10713	2070.7	6673.5	6940.7		L:126480 RAINNEY8E 138 126561 8E DUM	138 1				98.6	-252.0	-0.16929			
									Base Case									
			10714	2070.7	6673.5	6940.7		L:126295 RAINNEY 345 126561 8E DUM	138 8				-98.6	252.0	0.16929			
									Base Case									
			10715	2071.7	6674.4	6941.6		L:128835 SHORE RD 345 129293 SHORE RD	138 2				355.1	770.0	0.20025	0.20025	236.3	651.1
									C:128824 EG	395								
									Open 128824 EGC DUM	345	128830	HMP HRBR	-0.25824	0.00000	-460.3	-460.3		
			10719	2098.8	6701.6	6968.8		L:128835 SHORE RD 345 129293 SHORE RD	138 1				348.2	770.0	0.20097	0.20097	237.1	658.9
									C:SPRN-BRK-	778								
									Open 126298 SPRBROOK	345	126299	REACBUS	0.25904	0.00000	0.0	0.0		
									Open 126299 REACBUS	NA								
									Open 128830 HMP HRBR	NA								
									Open 128824 EGC DUM	NA								

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825 EGC PAR		-0.00024	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825 EGC PAR		-0.24130	0.00000	-460.2	-460.2
			10720	2098.8	6701.6	6968.8		L:128835 SHORE RD 345 129293 SHORE RD	138 1		348.2	770.0	0.20097		0.20097	237.1	658.9
									C:BUS:EGC_3		623						
									Open 126299	REACBUS	NA						
									Open 126298	SPRBROOK	345	126299 REACBUS		0.25904	0.00000	0.0	0.0
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825 EGC PAR		-0.00024	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825 EGC PAR		-0.24130	0.00000	-460.2	-460.2
			10722	2112.4	6715.2	6982.4		L:128835 SHORE RD 345 129293 SHORE RD	138 2		347.0	770.0	0.20025		0.20025	236.3	659.3
									C:BUS:EGC_3		623						
									Open 126299	REACBUS	NA						
									Open 126298	SPRBROOK	345	126299 REACBUS		0.25812	0.00000	0.0	0.0
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825 EGC PAR		-0.00024	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825 EGC PAR		-0.24044	0.00000	-460.2	-460.2
			10723	2112.4	6715.2	6982.4		L:128835 SHORE RD 345 129293 SHORE RD	138 2		347.0	770.0	0.20025		0.20025	236.3	659.3
									C:SPRN-BRK-		778						
									Open 126298	SPRBROOK	345	126299 REACBUS		0.25812	0.00000	0.0	0.0
									Open 126299	REACBUS	NA						
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825 EGC PAR		-0.00024	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825 EGC PAR		-0.24044	0.00000	-460.2	-460.2
			10725	2120	6722.8	6990		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27927		0.19456	1119.3	1531.8
									C:125002 RO		10						
									Open 125002	ROSETON	345	126281 FISHKILL		0.37909	0.22348	1507.8	1981.6
			10726	2120	6722.8	6990		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27927		0.19456	1119.3	1531.8
									C:SIN:4301		683						
									Open 125002	ROSETON	345	126281 FISHKILL		0.37909	0.22348	1507.8	1981.6
			10728	2130.5	6733.3	7000.5		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17450		-0.16824	-1244.2	-1602.7
									C:SIN:1301		669						
									Open 126263	BUCHANAN S	345	126291 MILLWOOD		-0.04160	0.07521	786.5	946.7
									Open 126263	BUCHANAN S	345	126291 MILLWOOD		-0.04160	0.07521	786.5	946.7
									Open 126263	BUCHANAN S	345	126290 LADENTWN		0.04059	0.00000	39.8	39.8
									Open 126263	BUCHANAN	NA						
									Open 147798	IP#3 GEN	NA						
									Open 147798	IP#3 GEN	NA						
									7798 IP#3 GEN	22.0	1072.8 MW dispatch						
			10729	2130.5	6733.3	7000.5		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17450		-0.16824	-1244.2	-1602.7
									C:SIN:1201		668						
									Open 126263	BUCHANAN S	345	126291 MILLWOOD		-0.04160	0.07521	786.5	946.7
									Open 126263	BUCHANAN S	345	126291 MILLWOOD		-0.04160	0.07521	786.5	946.7
									Open 126263	BUCHANAN S	345	126290 LADENTWN		0.04059	0.00000	39.8	39.8
									Open 126263	BUCHANAN	NA						
									Open 147798	IP#3 GEN	NA						
									Open 147798	IP#3 GEN	NA						
									7798 IP#3 GEN	22.0	1072.8 MW dispatch						
			10730	2132.3	6735.1	7002.2		L:129281 GLNWD GT 138 129288 ROSLYN	138 1		-38.4	379.0	0.19573		0.14340	-46.1	259.7
									C:129283 GL		428						
									Open 129283	GLNWD SO	138	129293 SHORE RD		-0.33008	-0.15854	-23.4	-361.5
			10731	2138.8	6741.6	7008.8		L:126266 DUNWODIE 345 128835 SHORE RD	345 1		557.9	1416.0	0.40122		0.40122	474.7	1332.8
									C:128822 E.		391						
									Open 128822	E.G.C.-1	345	129270 E.G.C.		0.36152	0.00000	230.0	230.0
			10732	2138.8	6741.6	7008.8		L:126266 DUNWODIE 345 128835 SHORE RD	345 1		557.9	1416.0	0.40122		0.40122	474.7	1332.8
									C:128822 E.		390						
									Open 128822	E.G.C.-1	345	128825 EGC PAR		-0.36152	0.00000	-230.0	-230.0



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 126299	REACBUS	NA						
									Open 126298	SPRBROOK	345	126299	REACBUS	0.23062	0.00000	0.0	0.0
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00076	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.22178	0.00000	-460.2	-460.2
			10781	2251.4	6854.2	7121.4		L:129281 GLNWD GT 138 129288 ROSLYN	138 1		56.1	379.0	0.14340	0.14340	-46.1	276.8	
									C:SPRN-BRK-	778							
									Open 126298	SPRBROOK	345	126299	REACBUS	0.23062	0.00000	0.0	0.0
									Open 126299	REACBUS	NA						
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00076	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.22178	0.00000	-460.2	-460.2
			10799	2280.3	6883.1	7150.3		L:129270 E.G.C. 138 129288 ROSLYN	138 1		-12.0	-339.0	-0.14340	-0.14340	94.6	-232.4	
									C:126299 RE	133							
									Open 126299	REACBUS	345	147857	DNPT NK	-0.23100	0.00000	461.5	461.5
			10802	2280.9	6883.7	7150.9		L:129270 E.G.C. 138 129288 ROSLYN	138 1		-11.9	-339.0	-0.14340	-0.14340	94.6	-232.5	
									C:128830 HM	372							
									Open 128830	HMP HRBR	345	147857	DNPT NK	0.23100	0.00000	-461.2	-461.2
			10803	2282.3	6885.1	7152.3		L:129270 E.G.C. 138 129288 ROSLYN	138 1		-11.7	-339.0	-0.14340	-0.14340	94.6	-232.7	
									C:128824 EG	395							
									Open 128824	EGC DUM	345	128830	HMP HRBR	0.23100	0.00000	-460.3	-460.3
			10817	2307	6909.8	7176.9		L:129281 GLNWD GT 138 129288 ROSLYN	138 1		-66.9	379.0	0.19329	0.14340	-46.1	284.7	
									C:129265 CA	417							
									Open 129265	CARLE PL	138	129283	GLNWD SO	-0.35641	-0.13997	58.4	-264.5
			10818	2307.8	6910.6	7177.8		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		70.2	-379.0	-0.19465	-0.13997	58.4	-264.6	
									C:129282 GL	427							
									Open 129282	GLNWD NO	138	129293	SHORE RD	0.32810	-0.16668	36.0	-348.7
			10819	2310.9	6913.7	7180.9		L:129270 E.G.C. 138 129288 ROSLYN	138 1		-7.6	-339.0	-0.14340	-0.14340	94.6	-236.8	
									C:SPRN-BRK-	778							
									Open 126298	SPRBROOK	345	126299	REACBUS	-0.23062	0.00000	0.0	0.0
									Open 126299	REACBUS	NA						
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	0.00076	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	0.22178	0.00000	-460.2	-460.2
			10820	2310.9	6913.7	7180.9		L:129270 E.G.C. 138 129288 ROSLYN	138 1		-7.6	-339.0	-0.14340	-0.14340	94.6	-236.8	
									C:BUS:EGC_3	623							
									Open 126299	REACBUS	NA						
									Open 126298	SPRBROOK	345	126299	REACBUS	-0.23062	0.00000	0.0	0.0
									Open 128830	HMP HRBR	NA						
									Open 128824	EGC DUM	NA						
									Open 128824	EGC DUM	NA						
									Open 128822	E.G.C.-1	345	128825	EGC PAR	0.00076	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	0.22178	0.00000	-460.2	-460.2
			10823	2319.9	6922.6	7189.8		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1312.9	-1725.0	-0.17763	-0.16824	-1244.2	-1634.5	
									C:SER:CMT34	594							
									Open 130750	COOPC345	345	146754	MDTN TAP	-0.08907	0.12731	875.2	1170.6
									Open 125001	ROCK TAV	345	146754	MDTN TAP	-0.02164	-0.08998	-428.2	-636.9
			10826	2322.4	6925.2	7192.3		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1313.3	-1725.0	-0.17727	-0.16824	-1244.2	-1634.9	
									C:130750 CO	196							
									Open 130750	COOPC345	345	147833	MARCY T1	0.09315	-0.09699	-741.6	-966.8
			10833	2329.1	6931.9	7199.1		L:129281 GLNWD GT 138 129288 ROSLYN	138 1		45.0	379.0	0.14340	0.14340	-46.1	287.9	
									C:128842 NE	398							
									Open 128842	NEPTCONV	345	128847	NWBRG	-0.13671	0.00000	-666.3	-666.3
			10872	2340.7	6943.5	7210.6		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		775.9	1196.0	0.17950	0.15154	651.4	1006.1	
									C:126298 SP	132							
									Open 126298	SPRBROOK	345	126518	REACM52	0.18842	0.14839	660.5	1007.8
			10873	2340.7	6943.5	7210.6		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		775.9	1196.0	0.17950	0.15154	651.4	1006.1	

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:126298 SF	131							
									Open 126298	SPRBROOK	345	126517 REACM51		0.18842	0.14839	660.5	1007.8
			10876	2340.9	6943.7	7210.9		L:126266 DUNWODIE 345 126600 REAC71	345 SR		775.8	1196.0	0.17950		0.15154	651.4	1006.1
									C:126298 SF	132							
									Open 126298	SPRBROOK	345	126518 REACM52		0.18842	0.14839	660.5	1007.9
			10877	2340.9	6943.7	7210.9		L:126266 DUNWODIE 345 126600 REAC71	345 SR		775.8	1196.0	0.17950		0.15154	651.4	1006.1
									C:126298 SF	131							
									Open 126298	SPRBROOK	345	126517 REACM51		0.18842	0.14839	660.5	1007.9
			10920	2344.1	6946.9	7214.1		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		775.2	1196.0	0.17950		0.15154	651.4	1006.6
									C:126304 W	366							
									Open 126304	W 49 ST	345	126518 REACM52		-0.18842	-0.14839	-657.2	-1005.0
			10921	2344.1	6946.9	7214.1		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		775.2	1196.0	0.17950		0.15154	651.4	1006.6
									C:126304 W	365							
									Open 126304	W 49 ST	345	126517 REACM51		-0.18842	-0.14839	-657.2	-1005.0
			10925	2344.4	6947.2	7214.4		L:126266 DUNWODIE 345 126600 REAC71	345 SR		775.2	1196.0	0.17950		0.15154	651.4	1006.6
									C:126304 W	365							
									Open 126304	W 49 ST	345	126517 REACM51		-0.18842	-0.14839	-657.2	-1005.1
			10926	2344.4	6947.2	7214.4		L:126266 DUNWODIE 345 126600 REAC71	345 SR		775.2	1196.0	0.17950		0.15154	651.4	1006.6
									C:126304 W	366							
									Open 126304	W 49 ST	345	126518 REACM52		-0.18842	-0.14839	-657.2	-1005.1
			12438	2351.1	6953.9	7221.1		L:129270 E.G.C. 138 129288 ROSLYN	138 1		115.4	-339.0	-0.19329		-0.14340	94.6	-242.5
									C:129265 CA	417							
									Open 129265	CARLE PL	138	129283 GLNWD SO	0.35641	-0.13997	58.4	-270.7	
			12521	2382	6984.8	7252		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		-45.6	-379.0	-0.13997		-0.13997	58.4	-275.0
									C:126299 RE	133							
									Open 126299	REACBUS	345	147857 DVNPT NK	-0.22535	0.00000	461.5	461.5	
			12524	2382.6	6985.4	7252.6		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		-45.5	-379.0	-0.13997		-0.13997	58.4	-275.1
									C:128830 HM	372							
									Open 128830	HMP HRBR	345	147857 DVNPT NK	0.22535	0.00000	-461.2	-461.2	
			12527	2384	6986.8	7254		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		-45.3	-379.0	-0.13997		-0.13997	58.4	-275.3
									C:128824 EG	395							
									Open 128824	EGC DUM	345	128830 HMP HRBR	0.22535	0.00000	-460.3	-460.3	
			12528	2384.8	6987.6	7254.8		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		74.6	-379.0	-0.19019		-0.13997	58.4	-275.4
									C:129281 GL	426							
									Open 129281	GLNWD GT	138	129288 ROSLYN	-0.35021	0.14340	-46.1	295.9	
			12531	2387.6	6990.4	7257.5		L:126266 DUNWODIE 345 126601 REAC72	345 SR		770.5	1196.0	0.17823		0.15047	646.9	1006.1
									C:126298 SP	132							
									Open 126298	SPRBROOK	345	126518 REACM52	0.18709	0.14839	660.5	1014.8	
			12532	2387.6	6990.4	7257.5		L:126266 DUNWODIE 345 126601 REAC72	345 SR		770.5	1196.0	0.17823		0.15047	646.9	1006.1
									C:126298 SF	131							
									Open 126298	SPRBROOK	345	126517 REACM51	0.18709	0.14839	660.5	1014.8	
			12533	2387.6	6990.4	7257.6		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		770.5	1196.0	0.17823		0.15047	646.9	1006.1
									C:126298 SP	132							
									Open 126298	SPRBROOK	345	126518 REACM52	0.18709	0.14839	660.5	1014.8	
			12534	2387.6	6990.4	7257.6		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		770.5	1196.0	0.17823		0.15047	646.9	1006.1
									C:126298 SF	131							
									Open 126298	SPRBROOK	345	126517 REACM51	0.18709	0.14839	660.5	1014.8	
			12535	2388.6	6991.4	7258.6		L:129270 E.G.C. 138 129288 ROSLYN	138 1		3.5	-339.0	-0.14340		-0.14340	94.6	-247.9
									C:128842 NE	398							
									Open 128842	NEPTCONV	345	128847 NWBRG	0.13671	0.00000	-666.3	-666.3	
			12537	2391	6993.8	7261		L:126266 DUNWODIE 345 126601 REAC72	345 SR		769.9	1196.0	0.17823		0.15047	646.9	1006.7
									C:126304 W	366							
									Open 126304	W 49 ST	345	126518 REACM52	-0.18709	-0.14839	-657.2	-1012.0	
			12538	2391	6993.8	7261		L:126266 DUNWODIE 345 126601 REAC72	345 SR		769.9	1196.0	0.17823		0.15047	646.9	1006.7
									C:126304 W	365							
									Open 126304	W 49 ST	345	126517 REACM51	-0.18709	-0.14839	-657.2	-1012.0	
			12539	2391.1	6993.8	7261		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		769.8	1196.0	0.17823		0.15047	646.9	1006.7
									C:126304 W	366							
									Open 126304	W 49 ST	345	126518 REACM52	-0.18709	-0.14839	-657.2	-1012.0	
			12540	2391.1	6993.8	7261		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		769.8	1196.0	0.17823		0.15047	646.9	1006.7
									C:126304 W	365							
									Open 126304	W 49 ST	345	126517 REACM51	-0.18709	-0.14839	-657.2	-1012.0	
			12545	2392.5	6995.3	7262.5		L:129281 GLNWD GT 138 129288 ROSLYN	138 1		-46.1	297.0	0.14340				



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12766	2498.2	7101	7368.2		L:126480 RAINNEY8E 138 126561 8E DUM	138 1		80.9	-342.0	-0.16929		-0.16929	98.6	-324.4
								C:BUS:TREMO		632							
								Open 126466 SECT 11		138 126470 38X01 T			-0.03659	0.00000	119.8	119.8	
								Open 126466 SECT 11		138 126471 38X02 T			-0.03659	0.00000	119.8	119.8	
								Open 126462 PARK TR1		NA							
								Open 126467 SECT 12		138 126472 38X03 T			-0.03659	0.00000	124.3	124.3	
								Open 126467 SECT 12		138 126473 38X04 T			-0.03659	0.00000	117.5	117.5	
								Open 126463 PARK TR2		NA							
								Open 126301 TREMONT		NA							
								Open 126301 TREMONT		NA							
								Open 126298 SPRBROOK		345 126301 TREMONT			0.00397	0.00000	-0.8	-0.8	
			12767	2498.2	7101	7368.2		L:126295 RAINNEY 345 126561 8E DUM	138 8		-80.9	342.0	0.16929		0.16929	-98.6	324.4
								C:BUS:TREMO		632							
								Open 126466 SECT 11		138 126470 38X01 T			0.03659	0.00000	119.8	119.8	
								Open 126466 SECT 11		138 126471 38X02 T			0.03659	0.00000	119.8	119.8	
								Open 126462 PARK TR1		NA							
								Open 126467 SECT 12		138 126472 38X03 T			0.03659	0.00000	124.3	124.3	
								Open 126467 SECT 12		138 126473 38X04 T			0.03659	0.00000	117.5	117.5	
								Open 126463 PARK TR2		NA							
								Open 126301 TREMONT		NA							
								Open 126301 TREMONT		NA							
								Open 126298 SPRBROOK		345 126301 TREMONT			-0.00397	0.00000	-0.8	-0.8	
			12771	2498.4	7101.2	7368.4		L:126480 RAINNEY8E 138 126561 8E DUM	138 1		81.0	-342.0	-0.16929		-0.16929	98.6	-324.4
								C:126298 SP		363							
								Open 126298 SPRBROOK		345 126301 TREMONT			-0.03659	0.00000	480.6	480.6	
			12772	2498.4	7101.2	7368.4		L:126295 RAINNEY 345 126561 8E DUM	138 8		-81.0	342.0	0.16929		0.16929	-98.6	324.4
								C:126298 SP		363							
								Open 126298 SPRBROOK		345 126301 TREMONT			0.03659	0.00000	480.6	480.6	
			12826	2501.9	7104.7	7371.9		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1		-81.6	342.0	0.16929		0.16929	-99.2	324.4
								C:BUS:TREMO		632							
								Open 126466 SECT 11		138 126470 38X01 T			0.03659	0.00000	119.8	119.8	
								Open 126466 SECT 11		138 126471 38X02 T			0.03659	0.00000	119.8	119.8	
								Open 126462 PARK TR1		NA							
								Open 126467 SECT 12		138 126472 38X03 T			0.03659	0.00000	124.3	124.3	
								Open 126467 SECT 12		138 126473 38X04 T			0.03659	0.00000	117.5	117.5	
								Open 126463 PARK TR2		NA							
								Open 126301 TREMONT		NA							
								Open 126301 TREMONT		NA							
								Open 126298 SPRBROOK		345 126301 TREMONT			-0.00397	0.00000	-0.8	-0.8	
			12837	2502.1	7104.9	7372.1		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1		-81.6	342.0	0.16929		0.16929	-99.2	324.4
								C:126298 SP		363							
								Open 126298 SPRBROOK		345 126301 TREMONT			0.03659	0.00000	480.6	480.6	
			13062	2507.2	7110	7377.2		L:126480 RAINNEY8E 138 126561 8E DUM	138 1		82.4	-342.0	-0.16929		-0.16929	98.6	-325.9
								C:SPRN-ACDM		779							
								Open 126298 SPRBROOK		345 126847 ACADEMY			-0.03496	0.00000	461.4	461.4	
								Open 126780 SCK-PARW		138 126847 ACADEMY			0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE		138 126847 ACADEMY			0.03895	0.00000	0.7	0.7	
			13065	2507.2	7110	7377.2		L:126295 RAINNEY 345 126561 8E DUM	138 8		-82.5	342.0	0.16929		0.16929	-98.6	325.9
								C:SPRN-ACDM		779							
								Open 126298 SPRBROOK		345 126847 ACADEMY			0.03496	0.00000	461.4	461.4	
								Open 126780 SCK-PARW		138 126847 ACADEMY			0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE		138 126847 ACADEMY			-0.03895	0.00000	0.7	0.7	
			14093	2510.9	7113.7	7380.9		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1		-83.1	342.0	0.16929		0.16929	-99.2	325.9
								C:SPRN-ACDM		779							
								Open 126298 SPRBROOK		345 126847 ACADEMY			0.03496	0.00000	461.4	461.4	
								Open 126780 SCK-PARW		138 126847 ACADEMY			0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE		138 126847 ACADEMY			-0.03895	0.00000	0.7	0.7	
			14191	2515.7	7118.5	7385.6		L:129270 E.G.C. 138 129288 ROSLYN	138 1		147.2	-339.0	-0.19329		-0.14340	94.6	-266.1
								C:129265 CA		416							
								Open 129265 CARLE PL		138 129270 E.G.C.			-0.35641	0.13997	-147.7	204.4	
			14225	2518.6	7121.4	7388.6		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		36.6	-372.0	-0.16223		-0.16223	53.7	-354.9
								C:BUS:TREMO		632							
								Open 126466 SECT 11		138 126470 38X01 T			-0.03561	0.00000	119.8	119.8	



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 126466	SECT 11	138	126471 38X02 T		-0.03561	0.00000	119.8	119.8
									Open 126462	PARK TR1	NA						
									Open 126467	SECT 12	138	126472 38X03 T		-0.03561	0.00000	124.3	124.3
									Open 126467	SECT 12	138	126473 38X04 T		-0.03561	0.00000	117.5	117.5
									Open 126463	PARK TR2	NA						
									Open 126301	TREMONT	NA						
									Open 126301	TREMONT	NA						
									Open 126298	SPRBROOK	345	126301 TREMONT		0.00386	0.00000	-0.8	-0.8
			14226	2518.6	7121.4	7388.6		L:126295 RAINNEY 345 126562 8W DUM	138 8		-36.6	372.0	0.16223		0.16223	-53.7	354.9
									C:BUS:TREMO		632						
									Open 126466	SECT 11	138	126470 38X01 T		0.03561	0.00000	119.8	119.8
									Open 126466	SECT 11	138	126471 38X02 T		0.03561	0.00000	119.8	119.8
									Open 126462	PARK TR1	NA						
									Open 126467	SECT 12	138	126472 38X03 T		0.03561	0.00000	124.3	124.3
									Open 126467	SECT 12	138	126473 38X04 T		0.03561	0.00000	117.5	117.5
									Open 126463	PARK TR2	NA						
									Open 126301	TREMONT	NA						
									Open 126301	TREMONT	NA						
									Open 126298	SPRBROOK	345	126301 TREMONT		-0.00386	0.00000	-0.8	-0.8
			14227	2518.8	7121.6	7388.8		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		36.6	-372.0	-0.16223		-0.16223	53.7	-354.9
									C:126298 SP		363						
									Open 126298	SPRBROOK	345	126301 TREMONT		-0.03561	0.00000	480.6	480.6
			14228	2518.8	7121.6	7388.8		L:126295 RAINNEY 345 126562 8W DUM	138 8		-36.6	372.0	0.16223		0.16223	-53.7	354.9
									C:126298 SP		363						
									Open 126298	SPRBROOK	345	126301 TREMONT		0.03561	0.00000	480.6	480.6
			14229	2519.1	7121.9	7389.1		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-36.7	372.0	0.16223		0.16223	-53.8	354.9
									C:BUS:TREMO		632						
									Open 126466	SECT 11	138	126470 38X01 T		0.03561	0.00000	119.8	119.8
									Open 126466	SECT 11	138	126471 38X02 T		0.03561	0.00000	119.8	119.8
									Open 126462	PARK TR1	NA						
									Open 126467	SECT 12	138	126472 38X03 T		0.03561	0.00000	124.3	124.3
									Open 126467	SECT 12	138	126473 38X04 T		0.03561	0.00000	117.5	117.5
									Open 126463	PARK TR2	NA						
									Open 126301	TREMONT	NA						
									Open 126301	TREMONT	NA						
									Open 126298	SPRBROOK	345	126301 TREMONT		-0.00386	0.00000	-0.8	-0.8
			14230	2519.3	7122.1	7389.3		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-36.7	372.0	0.16223		0.16223	-53.8	354.9
									C:126298 SP		363						
									Open 126298	SPRBROOK	345	126301 TREMONT		0.03561	0.00000	480.6	480.6
			14238	2520.9	7123.7	7390.9		L:126480 RAINNEY8E 138 126561 8E DUM	138 1		85.9	-342.0	-0.16975		-0.16929	98.6	-328.2
									C:BUS:GOWAN		625						
									Open 126287	GOWANUSS	345	126591 GOWANUS 42SR		0.00477	-0.03173	0.0	-80.0
									Open 126287	GOWANUSS	345	126429 GOWNUS2T		-0.14837	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622 GATE 3		0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623 GATE 4		0.00000	0.00000	41.4	41.4
									Open 126285	GOTHL S	345	126287 GOWANUSS		0.00943	-0.03197	444.1	363.5
									Open 126286	GOWANUSN	345	126287 GOWANUSS		-0.00772	0.00000	257.3	257.3
			14239	2520.9	7123.7	7390.9		L:126295 RAINNEY 345 126561 8E DUM	138 8		-85.9	342.0	0.16975		0.16929	-98.6	328.2
									C:BUS:GOWAN		625						
									Open 126287	GOWANUSS	345	126591 GOWANUS 42SR		-0.00477	-0.03173	0.0	-80.0
									Open 126287	GOWANUSS	345	126429 GOWNUS2T		0.14837	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622 GATE 3		0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623 GATE 4		0.00000	0.00000	41.4	41.4
									Open 126285	GOTHL S	345	126287 GOWANUSS		-0.00943	-0.03197	444.1	363.5
									Open 126286	GOWANUSN	345	126287 GOWANUSS		0.00772	0.00000	257.3	257.3
			14242	2521.4	7124.2	7391.4		L:126480 RAINNEY8E 138 126561 8E DUM	138 1		86.0	-342.0	-0.16974		-0.16929	98.6	-328.3
									C:BUS:GOWAN		624						
									Open 126286	GOWANUSN	345	126287 GOWANUSS		0.00940	0.00024	0.0	0.6
									Open 126286	GOWANUSN	345	126590 GOWANUS 41SR		0.01418	-0.03170	0.0	-79.9
									Open 126286	GOWANUSN	345	126427 GOWNUS1T		-0.13851	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620 GATE 1		0.00940	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621 GATE 2		0.00940	0.00000	45.4	45.4
									Open 126283	GOTHL S N	345	126286 GOWANUSN		0.00169	0.00000	253.3	253.3

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			14243	2521.4	7124.2	7391.4		L:126295 RAINNEY 345 126561 8E DUM	138 8		-86.0	342.0	0.16974		0.16929	-98.6	328.3
								C:BUS:GOWAN 624									
								Open 126286 GOWANUSN 345 126287 GOWANUSS					-0.00940	0.00024	0.0	0.0	0.6
								Open 126286 GOWANUSN 345 126590 GOWANUS 41SR					-0.01418	-0.03170	0.0	0.0	-79.9
								Open 126286 GOWANUSN 345 126427 GOWNUS1T					0.13851	0.00000	100.0	100.0	
								Open 126286 GOWANUSN 345 126620 GATE 1					-0.00940	0.00000	45.4	45.4	
								Open 126286 GOWANUSN 345 126621 GATE 2					-0.00940	0.00000	45.4	45.4	
								Open 126283 GOTHLS N 345 126286 GOWANUSN					-0.00169	0.00000	253.3	253.3	
			14261	2524.6	7127.4	7394.6		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1		-86.5	342.0	0.16975		0.16929	-99.2	328.2
								C:BUS:GOWAN 625									
								Open 126287 GOWANUSS 345 126591 GOWANUS 42SR					-0.00477	-0.03173	0.0	0.0	-80.1
								Open 126287 GOWANUSS 345 126429 GOWNUS2T					0.14837	0.00000	100.0	100.0	
								Open 126287 GOWANUSS 345 126622 GATE 3					0.00000	0.00000	45.4	45.4	
								Open 126287 GOWANUSS 345 126623 GATE 4					0.00000	0.00000	41.4	41.4	
								Open 126285 GOTHLS S 345 126287 GOWANUSS					-0.00943	-0.03197	444.1	363.4	
								Open 126286 GOWANUSN 345 126287 GOWANUSS					0.00772	0.00000	257.3	257.3	
			14262	2525.1	7127.9	7395.1		L:126480 RAINNEY8E 138 126506 VERNON-E	138 1		-86.6	342.0	0.16974		0.16929	-99.2	328.3
								C:BUS:GOWAN 624									
								Open 126286 GOWANUSN 345 126287 GOWANUSS					-0.00940	0.00024	0.0	0.0	0.6
								Open 126286 GOWANUSN 345 126590 GOWANUS 41SR					-0.01418	-0.03170	0.0	0.0	-80.1
								Open 126286 GOWANUSN 345 126427 GOWNUS1T					0.13851	0.00000	100.0	100.0	
								Open 126286 GOWANUSN 345 126620 GATE 1					-0.00940	0.00000	45.4	45.4	
								Open 126286 GOWANUSN 345 126621 GATE 2					-0.00940	0.00000	45.4	45.4	
								Open 126283 GOTHLS N 345 126286 GOWANUSN					-0.00169	0.00000	253.3	253.3	
			14278	2527.7	7130.5	7397.7		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		38.1	-372.0	-0.16223		-0.16223	53.7	-356.3
								C:SPRN-ACDM 779									
								Open 126298 SPBROOK 345 126847 ACADEMY					-0.03402	0.00000	461.4	461.4	
								Open 126780 SCK-PARW 138 126847 ACADEMY					0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE 138 126847 ACADEMY					0.03790	0.00000	0.7	0.7	
			14279	2527.7	7130.5	7397.7		L:126295 RAINNEY 345 126562 8W DUM	138 8		-38.1	372.0	0.16223		0.16223	-53.7	356.3
								C:SPRN-ACDM 779									
								Open 126298 SPBROOK 345 126847 ACADEMY					0.03402	0.00000	461.4	461.4	
								Open 126780 SCK-PARW 138 126847 ACADEMY					0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE 138 126847 ACADEMY					-0.03790	0.00000	0.7	0.7	
			14284	2528.2	7131	7398.2		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-38.2	372.0	0.16223		0.16223	-53.8	356.3
								C:SPRN-ACDM 779									
								Open 126298 SPBROOK 345 126847 ACADEMY					0.03402	0.00000	461.4	461.4	
								Open 126780 SCK-PARW 138 126847 ACADEMY					0.00000	0.00000	-230.4	-230.4	
								Open 126781 SCK-PARE 138 126847 ACADEMY					-0.03790	0.00000	0.7	0.7	
			14294	2531.3	7134.1	7401.3		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-554.8	-707.0	-0.06012		-0.03733	-446.4	-540.8
								C:125001 RO 9									
								Open 125001 ROCK TAV 345 146754 MDIN TAP					0.25331	-0.08998	-428.2	-655.9	
			14306	2539.3	7142.1	7409.2		L:129265 CARLE PL 138 129283 GLNWD SO	138 1		58.4	-297.0	-0.13997				
								Base Case									
			14308	2541.3	7144.1	7411.3		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		41.4	-372.0	-0.16267		-0.16223	53.7	-358.5
								C:BUS:GOWAN 625									
								Open 126287 GOWANUSS 345 126591 GOWANUS 42SR					0.00466	-0.03173	0.0	0.0	-80.6
								Open 126287 GOWANUSS 345 126429 GOWNUS2T					-0.14499	0.00000	100.0	100.0	
								Open 126287 GOWANUSS 345 126622 GATE 3					0.00000	0.00000	45.4	45.4	
								Open 126287 GOWANUSS 345 126623 GATE 4					0.00000	0.00000	41.4	41.4	
								Open 126285 GOTHLS S 345 126287 GOWANUSS					-0.00921	-0.03197	444.1	362.9	
								Open 126286 GOWANUSN 345 126287 GOWANUSS					-0.00750	0.00000	257.3	257.3	
			14309	2541.3	7144.1	7411.3		L:126295 RAINNEY 345 126562 8W DUM	138 8		-41.4	372.0	0.16267		0.16223	-53.7	358.5
								C:BUS:GOWAN 625									
								Open 126287 GOWANUSS 345 126591 GOWANUS 42SR					-0.00466	-0.03173	0.0	0.0	-80.6
								Open 126287 GOWANUSS 345 126429 GOWNUS2T					0.14499	0.00000	100.0	100.0	
								Open 126287 GOWANUSS 345 126622 GATE 3					0.00000	0.00000	45.4	45.4	
								Open 126287 GOWANUSS 345 126623 GATE 4					0.00000	0.00000	41.4	41.4	
								Open 126285 GOTHLS S 345 126287 GOWANUSS					-0.00921	-0.03197	444.1	362.9	
								Open 126286 GOWANUSN 345 126287 GOWANUSS					0.00750	0.00000	257.3	257.3	
			14313	2541.8	7144.5	7411.7		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		41.5	-372.0	-0.16267		-0.16223	53.7	-358.6
								C:BUS:GOWAN 624									
								Open 126286 GOWANUSN 345 126287 GOWANUSS					0.00918	0.00024	0.0	0.0	0.6

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	0.01385	-0.03170	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	-0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLN	345	126286	GOWANUSN	0.00169	0.00000	253.3	253.3
			14314	2541.8	7144.5	7411.7		L:126295 RAINNEY 345 126562 8W DUM	138	8		-41.5	372.0	0.16267	0.16223	-53.7	358.6
									C:BUS:GOWAN	624							
									Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00918	0.00024	0.0	0.6
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	-0.01385	-0.03170	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	-0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	-0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLN	345	126286	GOWANUSN	-0.00169	0.00000	253.3	253.3
			14317	2541.8	7144.6	7411.8		L:126481 RAINNEY8W 138 126507 VERNON-W	138	1		-41.5	372.0	0.16267	0.16223	-53.8	358.5
									C:BUS:GOWAN	625							
									Open 126287	GOWANUSS	345	126591	GOWANUS 42SR	-0.00466	-0.03173	0.0	-80.6
									Open 126287	GOWANUSS	345	126429	GOWNUS2T	0.14499	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4
									Open 126285	GOTHLN	345	126287	GOWANUSS	-0.00921	-0.03197	444.1	362.9
									Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00750	0.00000	257.3	257.3
			14318	2542.3	7145.1	7412.3		L:126481 RAINNEY8W 138 126507 VERNON-W	138	1		-41.5	372.0	0.16267	0.16223	-53.8	358.6
									C:BUS:GOWAN	624							
									Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00918	0.00024	0.0	0.6
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	-0.01385	-0.03170	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	-0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	-0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLN	345	126286	GOWANUSN	-0.00169	0.00000	253.3	253.3
			14337	2555.3	7158.1	7425.3		L:125001 ROCK TAV 345 130750 COOPC345	345	2		-1293.9	-1793.0	-0.19530	-0.11538	-744.5	-1039.3
									C:130750 CO	195							
									Open 130750	COOPC345	345	146754	MDTN TAP	-0.62777	0.12731	875.2	1200.6
			14349	2560.8	7163.6	7430.8		L:129265 CARLE PL 138 129270 E.G.C.	138	1		-159.5	339.0	0.19465	0.13997	-147.7	210.8
									C:129282 GL	427							
			14360	2567	7169.8	7436.9		L:126480 RAINNEY8E 138 126561 8E DUM	138	1		92.9	-342.0	-0.16944	-0.16668	36.0	-390.8
									C:SER:W90&W	584							
									Open 126266	DUNWODIE	345	126293	PL VILLW	0.00088	-0.18775	-991.7	-1473.6
									Open 126342	W74 TAP	345	126368	DUN NO	-0.01601	-0.00135	295.6	292.2
									Open 126293	PL VILLW	345	126733	PLTVILLE	-0.00057	0.00001	40.5	40.6
									Open 126293	PL VILLW	345	126305	WOOD A	0.00320	0.00000	3.0	3.0
			14361	2567	7169.8	7436.9		L:126295 RAINNEY 345 126561 8E DUM	138	8		-92.9	342.0	0.16944	0.16929	-98.6	336.0
									C:SER:W90&W	584							
									Open 126266	DUNWODIE	345	126293	PL VILLW	-0.00088	-0.18775	-991.7	-1473.6
									Open 126342	W74 TAP	345	126368	DUN NO	0.01601	-0.00135	295.6	292.2
									Open 126293	PL VILLW	345	126733	PLTVILLE	-0.00057	0.00001	40.5	40.6
									Open 126293	PL VILLW	345	126305	WOOD A	-0.00320	0.00000	3.0	3.0
			14367	2568.4	7171.1	7438.3		L:126480 RAINNEY8E 138 126561 8E DUM	138	1		94.1	-342.0	-0.16978	-0.16929	98.6	-336.2
									C:SIN:1201	668							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S	345	126290	LADENTWN	0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN	22.0	1072.8	MW dispatch				
			14368	2568.4	7171.1	7438.3		L:126480 RAINNEY8E 138 126561 8E DUM	138	1		94.1	-342.0	-0.16978	-0.16929	98.6	-336.2
									C:SIN:1301	669							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S	345	126290	LADENTWN	0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN 22.0	1072.8	MW dispatch					
			14369	2568.4	7171.2	7438.3		L:126295 RAINNEY 345 126561 8E DUM	138	8		-94.1	342.0	0.16978	0.16929	-98.6	336.2
									C:SIN:1301	669							
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S 345	126290	LADENTWN		-0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN 22.0	1072.8	MW dispatch					
			14370	2568.4	7171.2	7438.3		L:126295 RAINNEY 345 126561 8E DUM	138	8		-94.1	342.0	0.16978	0.16929	-98.6	336.2
									C:SIN:1201	668							
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.7
									Open 126263	BUCHANAN S 345	126290	LADENTWN		-0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN 22.0	1072.8	MW dispatch					
			14373	2569.9	7172.7	7439.9	*	L:126480 RAINNEY8E 138 126561 8E DUM	138	1		93.1	-342.0	-0.16929	-0.16929	98.6	-336.5
									C:126374 DU	369							
									Open 126374	DUN SOIR 138	126385	E179 ST		-0.03054	0.00000	179.6	179.6
			14374	2569.9	7172.7	7439.9	*	L:126295 RAINNEY 345 126561 8E DUM	138	8		-93.1	342.0	0.16929	0.16929	-98.6	336.5
									C:126374 DU	369							
									Open 126374	DUN SOIR 138	126385	E179 ST		0.03054	0.00000	179.6	179.6
			14379	2570.7	7173.5	7440.6		L:126480 RAINNEY8E 138 126506 VERNON-E	138	1		-93.6	342.0	0.16944	0.16929	-99.2	336.0
									C:SER:W90&W	584							
									Open 126266	DUNWODIE 345	126293	PL VILLW		-0.00088	-0.18775	-991.7	-1474.3
									Open 126342	W74 TAP 345	126368	DUN NO		0.01601	-0.00135	295.6	292.2
									Open 126293	PL VILLW 345	126733	PLTVILLE		0.00057	0.00001	40.5	40.6
									Open 126293	PL VILLW 345	126305	WOOD A		-0.00320	0.00000	3.0	3.0
			14384	2572	7174.8	7442		L:126480 RAINNEY8E 138 126506 VERNON-E	138	1		-94.7	342.0	0.16978	0.16929	-99.2	336.2
									C:SIN:1201	668							
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.9
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.9
									Open 126263	BUCHANAN S 345	126290	LADENTWN		-0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN 22.0	1072.8	MW dispatch					
			14385	2572	7174.8	7442		L:126480 RAINNEY8E 138 126506 VERNON-E	138	1		-94.7	342.0	0.16978	0.16929	-99.2	336.2
									C:SIN:1301	669							
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.9
									Open 126263	BUCHANAN S 345	126291	MILLWOOD		0.00325	0.07521	786.5	979.9
									Open 126263	BUCHANAN S 345	126290	LADENTWN		-0.00148	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									7798	IP#3 GEN 22.0	1072.8	MW dispatch					
			14390	2573.6	7176.4	7443.6	*	L:126480 RAINNEY8E 138 126506 VERNON-E	138	1		-93.7	342.0	0.16929	0.16929	-99.2	336.5
									C:126374 DU	369							
									Open 126374	DUN SOIR 138	126385	E179 ST		0.03054	0.00000	179.6	179.6
			14480	2588.4	7191.2	7458.3		L:126481 RAINNEY8W 138 126562 8W DUM	138	1		48.3	-372.0	-0.16237	-0.16223	53.7	-366.2
									C:SER:W90&W	584							
									Open 126266	DUNWODIE 345	126293	PL VILLW		0.00085	-0.18775	-991.7	-1477.7
									Open 126342	W74 TAP 345	126368	DUN NO		-0.01558	-0.00135	295.6	292.1
									Open 126293	PL VILLW 345	126733	PLTVILLE		-0.00055	0.00001	40.5	40.6
									Open 126293	PL VILLW 345	126305	WOOD A		0.00311	0.00000	3.0	3.0
			14481	2588.4	7191.2	7458.3		L:126295 RAINNEY 345 126562 8W DUM	138	8		-48.3	372.0	0.16237	0.16223	-53.7	366.2
									C:SER:W90&W	584							
									Open 126266	DUNWODIE 345	126293	PL VILLW		-0.00085	-0.18775	-991.7	-1477.7
									Open 126342	W74 TAP 345	126368	DUN NO		0.01558	-0.00135	295.6	292.1

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 126293	PL VILLW	345	126733	PLTVILLE	0.00055	0.00001	40.5	40.6
									Open 126293	PL VILLW	345	126305	WOOD A	-0.00311	0.00000	3.0	3.0
			14488	2588.9	7191.7	7458.9		L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-48.4	372.0	0.16237		0.16223	-53.8	366.2
									C:SER:W90&W	584							
									Open 126266	DUNWODIE	345	126293	PL VILLW	-0.00085	-0.18775	-991.7	-1477.8
									Open 126342	W74 TAP	345	126368	DUN NO	0.01558	-0.00135	295.6	292.1
									Open 126293	PL VILLW	345	126733	PLTVILLE	0.00055	0.00001	40.5	40.6
									Open 126293	PL VILLW	345	126305	WOOD A	-0.00311	0.00000	3.0	3.0
			14498	2589.8	7192.6	7459.7		L:126481 RAINEY8W 138 126562 8W DUM	138 1		49.4	-372.0	-0.16271		-0.16223	53.7	-366.4
									C:SIN:1201	668							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14499	2589.8	7192.6	7459.7	4	L:126481 RAINEY8W 138 126562 8W DUM	138 1		49.4	-372.0	-0.16271		-0.16223	53.7	-366.4
									C:SIN:1301	669							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	-0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14500	2589.8	7192.6	7459.7	4	L:126295 RAINEY 345 126562 8W DUM	138 8		-49.4	372.0	0.16271		0.16223	-53.7	366.4
									C:SIN:1201	668							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14501	2589.8	7192.6	7459.7	4	L:126295 RAINEY 345 126562 8W DUM	138 8		-49.4	372.0	0.16271		0.16223	-53.7	366.4
									C:SIN:1301	669							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14506	2590.3	7193.1	7460.3	4	L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-49.5	372.0	0.16271		0.16223	-53.8	366.4
									C:SIN:1201	668							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14507	2590.3	7193.1	7460.3	4	L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-49.5	372.0	0.16271		0.16223	-53.8	366.4
									C:SIN:1301	669							
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126291	MILLWOOD	0.00316	0.07521	786.5	981.3
									Open 126263	BUCHANAN S	345	126290	LADENTWN	-0.00144	0.00000	39.8	39.8
									Open 126263	BUCHANAN NA							
									Open 147798	IP#3 GEN NA							
									Open 147798	IP#3 GEN NA							
									Remove unit 1 from bus 1								
			14517	2591.1	7193.9	7461.1	4	L:137451 LEEDS 3 345 137453 N.SCOT99	345 2		-1218.1	-1724.0	-0.19523		-0.14160	-863.0	-1229.9

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:BUS:N.S.	615							
									Open 137452 N.SCOT77	345	137453 N.SCOT99			0.60778	-0.01577	-243.2	-284.0
									Open 137452 N.SCOT77	345	137516 N.SCOT1			0.40442	-0.02018	113.3	61.0
									Open 137200 EDIC	345	137452 N.SCOT77			-0.33528	0.10858	822.9	1104.2
									Open 137450 ALPS345	345	137452 N.SCOT77			-0.26699	-0.00198	-85.1	-90.3
									Open 137451 LEEDS 3	345	137452 N.SCOT77			0.20565	0.00000	0.0	0.0
			14522	2591.4	7194.2	7461.3	*	L:126481 RAINEY8W 138 126562 8W DUM	138 1		48.4	-372.0	-0.16223		-0.16223	53.7	-366.7
									C:126374 DU	369							
									Open 126374 DUN SO1R	138	126385 E179 ST			-0.02972	0.00000	179.6	179.6
			14523	2591.4	7194.2	7461.3	*	L:126295 RAINEY 345 126562 8W DUM	138 8		-48.4	372.0	0.16223		0.16223	-53.7	366.7
									C:126374 DU	369							
									Open 126374 DUN SO1R	138	126385 E179 ST			0.02972	0.00000	179.6	179.6
			14534	2591.9	7194.7	7461.9	*	L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-48.5	372.0	0.16223		0.16223	-53.8	366.7
									C:126374 DU	369							
									Open 126374 DUN SO1R	138	126385 E179 ST			0.02972	0.00000	179.6	179.6
			19837	2616	7218.8	7486		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		126.6	-379.0	-0.19329		-0.14340	105.8	-269.3
									C:129265 CA	417							
									Open 129265 CARLE PL	138	129283 GLNWD SO			0.35641	-0.13997	58.4	-307.7
			24994	2637.4	7240.2	7507.3		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		-0.8	-379.0	-0.14340		-0.14340	105.8	-272.4
									C:126299 RE	133							
									Open 126299 REACBUS	345	147857 DVNPT NK			-0.23100	0.00000	461.5	461.5
			24997	2637.7	7240.5	7507.7		L:125002 ROSETON 345 125190 ROSE GN1	24.0 1		-437.8	-614.0	-0.06679				
									Base Case								
			24998	2637.9	7240.7	7507.9		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		-0.7	-379.0	-0.14340		-0.14340	105.8	-272.5
									C:128830 HM	372							
									Open 128830 HMP HRBR	345	147857 DVNPT NK			0.23100	0.00000	-461.2	-461.2
			25006	2639.4	7242.2	7509.3		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		-0.5	-379.0	-0.14340		-0.14340	105.8	-272.7
									C:128824 EG	395							
									Open 128824 EGC DUM	345	128830 HMP HRBR			0.23100	0.00000	-460.3	-460.3
			25041	2643.7	7246.5	7513.7		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-163.8	339.0	0.19019		0.13997	-147.7	222.4
									C:129281 GL	426							
									Open 129281 GLNWD GT	138	129288 ROSLYN			0.35021	0.14340	-46.1	333.0
			28298	2668	7270.7	7537.9		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		3.6	-379.0	-0.14340		-0.14340	105.8	-276.8
									C:SPRN-BRK-	778							
									Open 126298 SPRBROOK	345	126299 REACBUS			-0.23062	0.00000	0.0	0.0
									Open 126299 REACBUS	NA							
									Open 128830 HMP HRBR	NA							
									Open 128824 EGC DUM	NA							
									Open 128824 EGC DUM	NA							
									Open 128822 E.G.C.-1	345	128825 EGC PAR			0.00076	0.00000	-230.0	-230.0
									Open 128823 E.G.C.-2	345	128825 EGC PAR			0.22178	0.00000	-460.2	-460.2
			28299	2668	7270.7	7537.9		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		3.6	-379.0	-0.14340		-0.14340	105.8	-276.8
									C:BUS:EGC 3	623							
									Open 126299 REACBUS	NA							
									Open 126298 SPRBROOK	345	126299 REACBUS			-0.23062	0.00000	0.0	0.0
									Open 128830 HMP HRBR	NA							
									Open 128824 EGC DUM	NA							
									Open 128824 EGC DUM	NA							
									Open 128822 E.G.C.-1	345	128825 EGC PAR			0.00076	0.00000	-230.0	-230.0
									Open 128823 E.G.C.-2	345	128825 EGC PAR			0.22178	0.00000	-460.2	-460.2
			29953	2704.8	7307.6	7574.8	*	L:129281 GLNWD GT 138 129288 ROSLYN	138 1		-8.9	379.0	0.14340		0.14340	-46.1	341.8
									C:128822 E.	391							
									Open 128822 E.G.C.-1	345	129270 E.G.C.			0.16176	0.00000	230.0	230.0
			30029	2733.1	7335.9	7603.1		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-180.8	339.0	0.19019		0.13997	-147.7	234.9
									C:129270 E.	419							
									Open 129270 E.G.C.	138	129288 ROSLYN			-0.35021	-0.14340	94.6	-297.3
			30030	2733.9	7336.7	7603.9		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-43.7	339.0	0.13997		0.13997	-147.7	235.0
									C:126299 RE	133							
									Open 126299 REACBUS	345	147857 DVNPT NK			0.22535	0.00000	461.5	461.5
			30035	2734.4	7337.2	7604.4		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-43.7	339.0	0.13997		0.13997	-147.7	235.1
									C:128830 HM	372							
									Open 128830 HMP HRBR	345	147857 DVNPT NK			-0.22535	0.00000	-461.2	-461.2
			30036	2734.6	7337.4	7604.6		L:125001 ROCK TAV 345 130750 COOPC345	345 2		-1264.6	-1793.0	-0.19322		-0.11538	-744.5	-1060.0

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:SER:CMT34	594							
									Open 130750	COOPC345	345	146754	MDTN TAP	-0.55572	0.12731	875.2	1223.4
									Open 125001	ROCK TAV	345	146754	MDTN TAP	0.07882	-0.08998	-428.2	-674.2
			30045	2735.9	7338.7	7605.9		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-43.9	339.0	0.13997		0.13997	-147.7	235.3
									C:128824 EG	395							
									Open 128824	EGC DUM	345	128830	HMP HRBR	-0.22535	0.00000	-460.3	-460.3
			30064	2741	7343.8	7611		L:129282 GLNWD NO 138 129587 GLNWD NO	69.0 1		71.5	165.0	0.03412		0.02328	69.9	133.7
									C:129283 GL	428							
									Open 129283	GLNWD SO	138	129293	SHORE RD	-0.06838	-0.15854	-23.4	-458.0
			30079	2745.6	7348.4	7615.6		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		14.7	-379.0	-0.14340		-0.14340	105.8	-287.9
									C:128842 NE	398							
									Open 128842	NEPTCONV	345	128847	NWBRG	0.13671	0.00000	-666.3	-666.3
			30101	2753.7	7356.5	7623.7		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-184.7	339.0	0.19019		0.13997	-147.7	237.8
									C:129281 GL	425							
									Open 129281	GLNWD GT	138	129282	GLNWD NO	-0.35021	-0.14340	105.8	-289.1
			30126	2764.3	7367.1	7634.3	*	L:129270 E.G.C. 138 129288 ROSLYN	138 1		57.4	-339.0	-0.14340		-0.14340	94.6	-301.8
									C:128822 E.	391							
									Open 128822	E.G.C.-1	345	129270	E.G.C.	-0.16176	0.00000	230.0	230.0
			30128	2764.5	7367.3	7634.4		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-47.9	339.0	0.13997		0.13997	-147.7	239.3
									C:BUS:EGC 3	623							
									Open 126299	REACBUS NA							
									Open 126298	SPRBROOK	345	126299	REACBUS	0.22498	0.00000	0.0	0.0
									Open 128830	HMP HRBR NA							
									Open 128824	EGC DUM NA							
									Open 128824	EGC DUM NA							
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00074	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.21635	0.00000	-460.2	-460.2
			30129	2764.5	7367.3	7634.4		L:129265 CARLE PL 138 129270 E.G.C.	138 1		-47.9	339.0	0.13997		0.13997	-147.7	239.3
									C:SPRN-BRK-	778							
									Open 126298	SPRBROOK	345	126299	REACBUS	0.22498	0.00000	0.0	0.0
									Open 126299	REACBUS NA							
									Open 128830	HMP HRBR NA							
									Open 128824	EGC DUM NA							
									Open 128824	EGC DUM NA							
									Open 128822	E.G.C.-1	345	128825	EGC PAR	-0.00074	0.00000	-230.0	-230.0
									Open 128823	E.G.C.-2	345	128825	EGC PAR	-0.21635	0.00000	-460.2	-460.2
			30158	2770.9	7373.7	7640.9		L:146758 CHESTER 138 146771 SHOEM138	138 1		-175.8	-262.0	-0.03109				
									Base Case								
			30165	2772.2	7375	7642.1		L:146758 CHESTER 138 146773 SGRLF138	138 1		204.5	317.0	0.04059		0.03109	140.4	226.6
									C:125002 RO	10							
									Open 125002	ROSETON	345	126281	FISHKILL	0.04251	0.22348	1507.8	2127.3
			30166	2772.2	7375	7642.1		L:146758 CHESTER 138 146773 SGRLF138	138 1		204.5	317.0	0.04059		0.03109	140.4	226.6
									C:SIN:4301	683							
									Open 125002	ROSETON	345	126281	FISHKILL	0.04251	0.22348	1507.8	2127.3
			30169	2773.7	7376.5	7643.7		L:129361 RULND RD 138 129421 HOLBROOK	138 1		263.8	678.0	0.14932		0.17877	0.0	495.9
									C:128880 SH	401							
									Open 128880	SHMVDCL	192	129459	SHOREHAM	-0.80975	0.03638	-325.8	-224.9
			30176	2780.6	7383.3	7650.5		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		158.4	-379.0	-0.19329		-0.14340	105.8	-292.9
									C:129265 CA	416							
									Open 129265	CARLE PL	138	129270	E.G.C.	-0.35641	0.13997	-147.7	241.5
			30180	2791.2	7394	7661.2		L:129361 RULND RD 138 129421 HOLBROOK	138 1		0.0	499.0	0.17877				
									Base Case								
			30206	2806	7408.8	7676		L:129283 GLNWD SO 138 129293 SHORE RD	138 1		-9.4	-636.0	-0.22329		-0.15854	-23.4	-468.3
									C:129282 GL	427							
									Open 129282	GLNWD NO	138	129293	SHORE RD	0.38847	-0.16668	36.0	-431.7
			30208	2809	7411.8	7679		L:129281 GLNWD GT 138 129282 GLNWD NO	138 1		105.8	-297.0	-0.14340				
									Base Case								
			30298	2842	7444.8	7712	*	L:129265 CARLE PL 138 129270 E.G.C.	138 1		-58.8	339.0	0.13997		0.13997	-147.7	250.1
									C:128842 NE	398							
									Open 128842	NEPTCONV	345	128847	NWBRG	-0.13339	0.00000	-666.3	-666.3
			30301	2842.5	7445.3	7712.5		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-368.6	-783.0	-0.14579				
									Base Case								
			NA	2881.5	7484.3	7751.5	R	L: Interface 50 PJMCentral-C			-99.2	0.0	0.03444		0.03444	-189.9	-90.7





## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 10:06 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Program Files\PTI\MUST 9.0\Program\scratch.rcf  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 37193  
 First violation - -110552.1 MW.

Interface-1 Interface 12 I-TO-J Init.Flow= 3933.75 TDF= 1.0000

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
ABCDEF	GJ_IMPORT	3000.0	1	-110552	-105949	-106618		L: Interface 20 PJM-CENT	C:126294 PLT	120	3329.1	0.0	0.03011		0.02313	3278.0	721.4	
									Open 126294 PLTVLLEY		345	137451	LEEDS 3		-0.03979	-0.17565	-1284.4	18133.6
			2	-109820	-105217	-105886		L: Interface 20 PJM-CENT	C:SER:CMT344	594	3333.9	0.0	0.03036		0.02313	3278.0	738.4	
									Open 130750 COOPC345		345	146754	MDTN TAP		0.07978	0.12737	875.2	-13112.9
									Open 125001 ROCK TAV		345	146754	MDTN TAP		0.03257	-0.08992	-428.2	9447.0
			3	-108218	-103615	-104284		L: Interface 20 PJM-CENT	C:137200 EDI	946	3336.4	0.0	0.03083		0.02313	3278.0	775.4	
									Open 137200 EDIC		345	137452	N.SCOT77		0.07097	0.10856	822.9	-10925.7
			4	-107760	-103157	-103826		L: Interface 20 PJM-CENT	C:SIN:1501	670	3343.9	0.0	0.03103		0.02313	3278.0	786.0	
									Open 137200 EDIC		345	137452	N.SCOT77		0.07282	0.10856	822.9	-10876.0
									Open 137228 INGMS-CD		115	137886	INGHAM-E		0.05009	0.00000	119.9	119.9
									Open 137235 PORTER 1		115	147905	ILION		-0.00015	-0.00048	88.8	140.5
			5	-107759	-103157	-103826		L: Interface 20 PJM-CENT	C:SIN:1601	671	3343.9	0.0	0.03103		0.02313	3278.0	786.0	
									Open 137200 EDIC		345	137452	N.SCOT77		0.07282	0.10856	822.9	-10876.0
									Open 137228 INGMS-CD		115	137886	INGHAM-E		0.05011	0.00000	119.9	119.9
									Open 137235 PORTER 1		115	137246	VALLEY		-0.00023	-0.00070	74.9	150.6
			6	-107552	-102949	-103618		L: Interface 20 PJM-CENT	C:147834 NIA	226	3325.1	0.0	0.03092		0.02313	3278.0	790.8	
									Open 147834 NIAG 345		345	149000	ROCH 345		0.11154	0.06985	422.0	-7090.1
			7	-105566	-100963	-101632		L: Interface 20 PJM-CENT	C:137453 N.S	12	3345.2	0.0	0.03169		0.02313	3278.0	836.7	
									Open 137453 N.SCOT99		345	147833	MARCY T1		-0.07310	-0.11714	-920.0	11446.4
			8	-105078	-100475	-101144		L: Interface 20 PJM-CENT	C:SIN:1801	673	3353.1	0.0	0.03191		0.02313	3278.0	848.0	
									Open 137453 N.SCOT99		345	147833	MARCY T1		-0.07499	-0.11714	-920.0	11389.2
									Open 137228 INGMS-CD		115	137886	INGHAM-E		0.05104	0.00000	119.9	119.9
									Open 137235 PORTER 1		115	147905	ILION		-0.00015	-0.00048	88.8	139.2
			9	-105078	-100475	-101144		L: Interface 20 PJM-CENT	C:SIN:1701	672	3353.1	0.0	0.03191		0.02313	3278.0	848.0	
									Open 137453 N.SCOT99		345	147833	MARCY T1		-0.07499	-0.11714	-920.0	11389.2
									Open 137228 INGMS-CD		115	137886	INGHAM-E		0.05106	0.00000	119.9	119.9
									Open 137235 PORTER 1		115	137246	VALLEY		-0.00023	-0.00070	74.9	148.7
			10	-103693	-99090.2	-99759.2 *		L: Interface 20 PJM-CENT	C:130750 COO	196	3348.0	0.0	0.03229		0.02313	3278.0	880.1	
									Open 130750 COOPC345		345	147833	MARCY T1		-0.09444	-0.09702	-741.6	9318.6
			25	-37478.7	-32875.9	-33544.9		L: Interface 23 QFW	C:130754 KIN	205	1180.5	0.0	0.03150		0.02041	1090.3	325.5	
									Open 130754 KINTI345		345	149000	ROCH 345		0.17204	0.06447	524.4	-1891.8
			26	-36009.2	-31406.4	-32075.5		L: Interface 23 QFW	C:SER:EESR/W	612	1084.2	0.0	0.03011		0.02041	1090.3	355.5	
									Open 135251 S RIPLEY		230	200654	ERIE E		0.36120	0.02172	9.1	-773.1
									Open 135277 FALCONER		115	200579	WARREN		0.31047	0.00721	-36.4	-296.2

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			27	-35529.8	-30927	-31596		L: Interface 23 QFW	Open 130836 N.WAV115	115	200676	E.SAYRE	0.04849	-0.00790	0.02041	39.9	324.4
									C:SER:EESR/W	610		1082.3	0.0	0.03046		1090.3	365.2
									Open 135251 S RIPLEY	230	200654	ERIE E	0.36020	0.02172		9.1	-762.7
									Open 135277 FALCONER	115	200579	WARREN	0.30929	0.00721		-36.4	-292.7
			28	-35224.5	-30621.7	-31290.8		L: Interface 23 QFW		1073.0		0.0	0.03046		0.02041	1090.3	371.5
									C:SER:ESEE/W	611							
									Open 270 ERIE SO.	230	531	ERIE SE	0.00129	-0.01196		17.5	438.7
									Open 531 ERIE SE	230	200654	ERIE E	-0.36095	-0.02172		16.9	782.0
									Open 135277 FALCONER	115	200579	WARREN	0.30905	0.00721		-36.4	-290.5
			29	-34367.9	-29765.1	-30434.1		L: Interface 23 QFW		1077.2		0.0	0.03134		0.02041	1090.3	389.0
									C:136150 CLA	717							
									Open 136150 CLAY	345	149001	PANNELL3	-0.14085	-0.07764		93.3	2761.5
			30	-34304.5	-29701.7	-30370.8		L: Interface 23 QFW		1077.1		0.0	0.03140		0.02041	1090.3	390.3
									C:136150 CLA	718							
									Open 136150 CLAY	345	149001	PANNELL3	-0.14111	-0.07789		93.6	2765.6
			31	-33755.8	-29153	-29822		L: Interface 23 QFW		1177.8		0.0	0.03489		0.02041	1090.3	401.5
									C:147834 NIA	226							
									Open 147834 NIAG	345	345	149000	ROCH 345	0.20740	0.06985	422.0	-1935.7
			32	-19338	-14735.2	-15404.3		L: Interface 47 C-PJMWest		-630.7		0.0	-0.03262		-0.03262	-550.2	80.6
									C:GEN:9 MI P	562							
									Remove unit 2 from bus 1	3							
			33	-19338	-14735.2	-15404.3		L: Interface 48 PJMWest-C	6700 9M PT 2G	25.0	1198.7	MW dispatch				550.2	-80.6
									C:GEN:9 MI P	562							
									6700 9M PT 2G	25.0	1198.7	MW dispatch					
			34	-19338	-14735.2	-15404.3		L: Interface 60 C2PJMC		-630.7		0.0	-0.03262		-0.03262	-550.2	80.6
									C:GEN:9 MI P	562							
									6700 9M PT 2G	25.0	1198.7	MW dispatch					
			35	-19338	-14735.2	-15404.3		L: Interface 61 PJMC2C		630.7		0.0	0.03262		0.03262	550.2	-80.6
									C:GEN:9 MI P	562							
									6700 9M PT 2G	25.0	1198.7	MW dispatch					
			36	-18955.5	-14352.7	-15021.7		L: Interface 47 C-PJMWest		-618.3		0.0	-0.03262		-0.03262	-550.2	68.1
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									3563 MILL#3	24.0	1276.0	MW dispatch					
			37	-18955.5	-14352.7	-15021.7		L: Interface 60 C2PJMC		-618.3		0.0	-0.03262		-0.03262	-550.2	68.1
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									3563 MILL#3	24.0	1276.0	MW dispatch					
			38	-18955.5	-14352.7	-15021.7		L: Interface 61 PJMC2C		618.3		0.0	0.03262		0.03262	550.2	-68.1
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									3563 MILL#3	24.0	1276.0	MW dispatch					
			39	-18955.5	-14352.7	-15021.7		L: Interface 48 PJMWest-C		618.3		0.0	0.03262		0.03262	550.2	-68.1
									C:SIN:2501	678							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									3563 MILL#3	24.0	1276.0	MW dispatch					
			40	-18953	-14350.2	-15019.2		L: Interface 48 PJMWest-C		618.2		0.0	0.03262		0.03262	550.2	-68.0
									C:GEN:SEAB&O	576							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			41	-18953	-14350.2	-15019.2		L: Interface 48 PJMWest-C		618.2		0.0	0.03262		0.03262	550.2	-68.0
									C:GEN:SEABRO	574							
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			42	-18953	-14350.2	-15019.2		L: Interface 60 C2PJMC		-618.2		0.0	-0.03262		-0.03262	-550.2	68.0
									C:GEN:SEAB&O	576							
									Open 100508 SANDB115	115	100509	SB RCTOR	0.00000	0.00000		-0.1	-0.1
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			43	-18953	-14350.2	-15019.2		L: Interface 60 C2PJMC		-618.2		0.0	-0.03262		-0.03262	-550.2	68.0
									C:GEN:SEABRO	574							
									2869 SBRK G1	25.0	1318.0	MW dispatch					
			44	-18953	-14350.2	-15019.2		L: Interface 47 C-PJMWest		-618.2		0.0	-0.03262		-0.03262	-550.2	68.0
									C:GEN:SEABRO	574							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Noon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
				Remove unit 1 from bus 1			0		2869 SBRK G1	25.0	1318.0 MW dispatch						
			45	-18953	-14350.2	-15019.2		L: Interface 61 PJMC2C			618.2	0.0	0.03262		0.03262	550.2	-68.0
									C:GEN:SEAB&G	576							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 1 from bus 1			0		2869 SBRK G1	25.0	1318.0 MW dispatch						
			46	-18953	-14350.2	-15019.2		L: Interface 47 C-PJMWest			-618.2	0.0	-0.03262		-0.03262	-550.2	68.0
									C:GEN:SEAB&G	576							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 1 from bus 1			0		2869 SBRK G1	25.0	1318.0 MW dispatch						
			47	-18953	-14350.2	-15019.2		L: Interface 61 PJMC2C			618.2	0.0	0.03262		0.03262	550.2	-68.0
									C:GEN:SEABRC	574							
				Remove unit 1 from bus 1			0		2869 SBRK G1	25.0	1318.0 MW dispatch						
			48	-18789.1	-14186.3	-14855.3		L: Interface 61 PJMC2C			612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MILLST	573							
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			49	-18789.1	-14186.3	-14855.3		L: Interface 60 C2PJMC			-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
									C:GEN:MLS3&C	575							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			50	-18789.1	-14186.3	-14855.3		L: Interface 61 PJMC2C			612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MLS3&C	575							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			51	-18789.1	-14186.3	-14855.3		L: Interface 48 PJMWest-C			612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MILLST	573							
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			52	-18789.1	-14186.3	-14855.3		L: Interface 60 C2PJMC			-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
									C:GEN:MILLST	573							
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			53	-18789.1	-14186.3	-14855.3		L: Interface 47 C-PJMWest			-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
									C:GEN:MILLST	573							
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			54	-18789.1	-14186.3	-14855.3		L: Interface 47 C-PJMWest			-612.8	0.0	-0.03262		-0.03262	-550.2	62.7
									C:GEN:MLS3&C	575							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			55	-18789.1	-14186.3	-14855.3		L: Interface 48 PJMWest-C			612.8	0.0	0.03262		0.03262	550.2	-62.7
									C:GEN:MLS3&C	575							
									Open 100508 SANDB115	115	100509 SB RCTOR		0.00000	0.00000		-0.1	-0.1
				Remove unit 3 from bus 1			0		3563 MILL#3	24.0	1276.0 MW dispatch						
			56	-18687.8	-14085.1	-14754.1		L: Interface 48 PJMWest-C			636.4	0.0	0.03405		0.03262	550.2	-59.4
									C:HQ-NY-765-	777							
									Open 147827 MARCY765	NA							
									Open 147828 MASS 765	NA							
									Open 147827 MARCY765	765	147833 MARCY T1		0.02481	0.03100	624.3	45.0	
									Open 147827 MARCY765	765	147833 MARCY T1		0.02481	0.02695	543.3	39.6	
									Open 156 MCY765SW	NA							
									Open 147838 MASS230B	230	147839 MOSES E		0.00000	-0.02898	10.7	552.2	
									Open 147828 MASS 765	NA							
									Open 147837 MASS230A	230	147839 MOSES E		-0.05511	0.00000	18.8	18.8	
									Open 147828 MASS 765	NA							
									Open 158 MS765SW2	NA							
									Open 157 MS765SW1	NA							
									Decrease bus 180001 BEA-DLX	13.8	generation by100.0 percent dispatch						
									Set bus 181319 CHAT G3	120	load to357.0 MW dispatch						
									Decrease bus 180002 BEA-DL	13.8	generation by100.0 percent dispatch						
									Set bus 181419 CHAT G4	120	load to357.0 MW dispatch						
				Remove unit 3 from bus 1			0										
			57	-18687.8	-14085.1	-14754.1		L: Interface 60 C2PJMC			-636.4	0.0	-0.03405		-0.03262	-550.2	59.4
									C:HQ-NY-765-	777							
									Open 147827 MARCY765	NA							
									Open 147828 MASS 765	NA							
									Open 147827 MARCY765	765	147833 MARCY T1		-0.02481	0.03100	624.3	45.0	
									Open 147827 MARCY765	765	147833 MARCY T1		-0.02481	0.02695	543.3	39.6	

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 156 MCY765SW	NA							
									Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
									Open 147828 MASS 765	NA							
									Open 147837 MASS230A	230 147839 MOSES E				0.05511	0.00000	18.8	18.8
									Open 147828 MASS 765	NA							
									Open 158 MS765SW2	NA							
									Open 157 MS765SW1	NA							
									Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			58	-18687.8	-14085.1	-14754.1		L: Interface 61 PJMC2C		636.4	0.0	0.03405			0.03262	550.2	-59.4
									C:HQ-NY-765-	777							
									Open 147827 MARCY765	NA							
									Open 147828 MASS 765	NA							
									Open 147827 MARCY765	765 147833 MARCY T1				0.02481	0.03100	624.3	45.0
									Open 147827 MARCY765	765 147833 MARCY T1				0.02481	0.02695	543.3	39.6
									Open 156 MCY765SW	NA							
									Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
									Open 147828 MASS 765	NA							
									Open 147837 MASS230A	230 147839 MOSES E				-0.05511	0.00000	18.8	18.8
									Open 147828 MASS 765	NA							
									Open 158 MS765SW2	NA							
									Open 157 MS765SW1	NA							
									Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			59	-18687.8	-14085.1	-14754.1		L: Interface 47 C-PJMWest		-636.4	0.0	-0.03405			-0.03262	-550.2	59.4
									C:HQ-NY-765-	777							
									Open 147827 MARCY765	NA							
									Open 147828 MASS 765	NA							
									Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.03100	624.3	45.0
									Open 147827 MARCY765	765 147833 MARCY T1				-0.02481	0.02695	543.3	39.6
									Open 156 MCY765SW	NA							
									Open 147838 MASS230B	230 147839 MOSES E				0.00000	-0.02898	10.7	552.2
									Open 147828 MASS 765	NA							
									Open 147837 MASS230A	230 147839 MOSES E				0.05511	0.00000	18.8	18.8
									Open 147828 MASS 765	NA							
									Open 158 MS765SW2	NA							
									Open 157 MS765SW1	NA							
									Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch							
									Set bus 181319 CHAT G3	120 load to357.0 MW dispatch							
									Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch							
									Set bus 181419 CHAT G4	120 load to357.0 MW dispatch							
			60	-18683.2	-14080.4	-14749.4		L: Interface 61 PJMC2C		603.2	0.0	0.03229			0.03262	550.2	-59.2
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345 147830 JA FITZP				-0.00490	0.06771	-61.1	-1326.2
									Open 137200 EDIC	345 147830 JA FITZP				-0.07687	0.00000	43.4	43.4
									7797 JAFITZ1G	24.0 887.7 MW dispatch							
									Remove unit 1 from bus 1								
			61	-18683.2	-14080.4	-14749.4		L: Interface 60 C2PJM		-603.2	0.0	-0.03229			-0.03262	-550.2	59.2
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345 147830 JA FITZP				-0.00490	0.06771	-61.1	-1326.2
									Open 137200 EDIC	345 147830 JA FITZP				0.07687	0.00000	43.4	43.4
									7797 JAFITZ1G	24.0 887.7 MW dispatch							
									Remove unit 1 from bus 1								
			62	-18683.2	-14080.4	-14749.4		L: Interface 48 PJMWest-C		603.2	0.0	0.03229			0.03262	550.2	-59.2
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345 147830 JA FITZP				-0.00490	0.06771	-61.1	-1326.2
									Open 137200 EDIC	345 147830 JA FITZP				-0.07687	0.00000	43.4	43.4
									7797 JAFITZ1G	24.0 887.7 MW dispatch							
									Remove unit 1 from bus 1								
			63	-18683.2	-14080.4	-14749.4		L: Interface 47 C-PJMWest		-603.2	0.0	-0.03229			-0.03262	-550.2	59.2
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345 147830 JA FITZP				0.00490	0.06771	-61.1	-1326.2

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									Open 137200 EDIC		345 147830 JA FITZP			0.07687	0.00000	43.4	43.4	
									7797 JAFITZ1G	24.0	887.7 MW dispatch							
									C:GEN:IND PT	556		592.8	0.0	0.03262		0.03262	550.2	-42.6
									7798 IP#3 GEN	22.0	1072.8 MW dispatch							
									C:GEN:IND PT	556		-592.8	0.0	-0.03262		-0.03262	-550.2	42.6
									7798 IP#3 GEN	22.0	1072.8 MW dispatch							
									C:GEN:IND PT	556		592.8	0.0	0.03262		0.03262	550.2	-42.6
									7798 IP#3 GEN	22.0	1072.8 MW dispatch							
									C:GEN:IND PT	556		-592.8	0.0	-0.03262		-0.03262	-550.2	42.6
									7798 IP#3 GEN	22.0	1072.8 MW dispatch							
									C:GEN:IND PT	556		593.3	0.0	0.03266		0.03262	550.2	-42.4
									C:MULT011	654								
									Open 4 CNASTONE	500	26 HUNTRTN			-0.02291	-0.00129	-1490.0	-1466.7	
									Open 26 HUNTRTN	500	1152 HUNTRSTN			0.02213	0.00049	404.7	395.9	
									C:MULT011	654		-593.3	0.0	-0.03266		-0.03262	-550.2	42.4
									Open 4 CNASTONE	500	26 HUNTRTN			-0.02291	-0.00129	-1490.0	-1466.7	
									Open 26 HUNTRTN	500	1152 HUNTRSTN			-0.02213	0.00049	404.7	395.9	
									C:MULT011	654		593.3	0.0	0.03266		0.03262	550.2	-42.4
									Open 4 CNASTONE	500	26 HUNTRTN			-0.02291	-0.00129	-1490.0	-1466.7	
									Open 26 HUNTRTN	500	1152 HUNTRSTN			0.02213	0.00049	404.7	395.9	
									C:MULT011	654		-593.3	0.0	-0.03266		-0.03262	-550.2	42.4
									Open 4 CNASTONE	500	26 HUNTRTN			-0.02291	-0.00129	-1490.0	-1466.7	
									Open 26 HUNTRTN	500	1152 HUNTRSTN			0.02213	0.00049	404.7	395.9	
									C:MULT011	654		593.3	0.0	0.03266		0.03262	550.2	-42.4
									Open 4 CNASTONE	500	26 HUNTRTN			-0.02291	-0.00129	-1490.0	-1466.7	
									Open 26 HUNTRTN	500	1152 HUNTRSTN			0.02213	0.00049	404.7	395.9	
									C:ETHS/NWES/	649		-516.3	0.0	-0.03864		-0.06705	-360.3	535.7
									Open 130763 HILSD230	230	200675 E.TWANDA			-0.80840	-0.01768	113.5	349.7	
									Open 130836 N.WAV115	115	200676 E.SAYRE			-0.83286	-0.00790	39.9	145.5	
									Open 130807 GOUDY115	115	200680 LAUREL L			-0.85098	-0.00885	36.6	154.9	
									C:ETHS/NWES/	649		516.3	0.0	0.03864		0.06705	360.3	-535.7
									Open 130763 HILSD230	230	200675 E.TWANDA			0.80840	-0.01768	113.5	349.7	
									Open 130836 N.WAV115	115	200676 E.SAYRE			0.83286	-0.00790	39.9	145.5	
									Open 130807 GOUDY115	115	200680 LAUREL L			0.85098	-0.00885	36.6	154.9	
									C:SER:ETHS/N	607		462.8	0.0	0.04995		0.06705	360.3	-261.0
									Open 130763 HILSD230	230	200675 E.TWANDA			0.66730	-0.01768	113.5	277.3	
									Open 130836 N.WAV115	115	200676 E.SAYRE			0.67167	-0.00790	39.9	113.1	
									C:SER:ETHS/N	607		-462.8	0.0	-0.04995		-0.06705	-360.3	261.0
									Open 130763 HILSD230	230	200675 E.TWANDA			-0.66730	-0.01768	113.5	277.3	
									Open 130836 N.WAV115	115	200676 E.SAYRE			-0.67167	-0.00790	39.9	113.1	
									C:SER:C398/N	606		461.8	0.0	0.04993		0.06705	360.3	-260.0
									Open 409 GROVER	230	200675 E.TWANDA			0.00111	0.00039	-15.5	-19.1	
									Open 130763 HILSD230	230	200675 E.TWANDA			-0.66889	-0.01768	113.5	277.0	
									Open 381 TOWANDA	115	200675 E.TWANDA			0.01713	-0.00156	-52.8	-38.4	
									Open 130836 N.WAV115	115	200676 E.SAYRE			0.66724	-0.00790	39.9	113.0	
									C:SER:C398/N	606		-461.8	0.0	-0.04993		-0.06705	-360.3	260.0
									Open 409 GROVER	230	200675 E.TWANDA			-0.00111	0.00039	-15.5	-19.1	
									Open 130763 HILSD230	230	200675 E.TWANDA			-0.66889	-0.01768	113.5	277.0	
									Open 381 TOWANDA	115	200675 E.TWANDA			-0.01713	-0.00156	-52.8	-38.4	
									Open 130836 N.WAV115	115	200676 E.SAYRE			-0.66724	-0.00790	39.9	113.0	
									C:SIN:2801	679		-273.2	0.0	-0.03062		0.00000	0.1	0.1
									Open 126262 BUCHANAN N	345	126267 E.VIEW 2N			-0.19888	0.13466	1136.0	-65.5	

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
									Open 126267 E VIEW 2N	345	126298	SPRBROOK		-0.02430	0.13766	934.2	-294.1	
									Open 126267 E VIEW 2N	345	126378	EASTVIEW		-0.38164	0.00000	1.9	1.9	
			7063	-8922.5	-4319.7	-4988.7		L: Interface 51 G-PJMEast	Open 126262 BUCHANAN N	345	126360	BUCHNTA5		-0.17497	0.00285	137.1	111.7	
									C:SIN:2801	679		273.2	0.0	0.03062		0.00000	-0.1	-0.1
									Open 126262 BUCHANAN N	345	126267	E VIEW 2N		0.19888	0.13466	1136.0	-65.5	
									Open 126267 E VIEW 2N	345	126298	SPRBROOK		0.02430	0.13766	934.2	-294.1	
									Open 126267 E VIEW 2N	345	126378	EASTVIEW		0.38164	0.00000	1.9	1.9	
			7064	-8423.6	-3820.8	-4489.8		L: Interface 62 C2PJMW	Open 126262 BUCHANAN N	345	126360	BUCHNTA5		-0.17497	0.00285	137.1	111.7	
									C:ETHS/LLGD1	650		-441.8	0.0	-0.05245		-0.06705	-360.3	204.6
									Open 130763 HILSD230	230	200675	E.TWANDA		-0.52480	-0.01768	113.5	262.4	
			7065	-8423.6	-3820.8	-4489.8		L: Interface 63 PJMW2C	Open 130807 GOUDY115	115	200680	LAUREL L		-0.60167	-0.00885	36.6	111.2	
									C:ETHS/LLGD1	650		441.8	0.0	0.05245		0.06705	360.3	-204.6
									Open 130763 HILSD230	230	200675	E.TWANDA		0.52480	-0.01768	113.5	262.4	
									Open 130807 GOUDY115	115	200680	LAUREL L		0.60167	-0.00885	36.6	111.2	
			7066	-7926.6	-3323.8	-3992.8		L: Interface 63 PJMW2C	C:ETHS/LLGD1	650		531.5	0.0	0.06705		0.06705	360.3	-171.3
									C:GEN:9 MI F	562								
									Remove unit 2 from bus 1									
			7067	-7926.6	-3323.8	-3992.8		L: Interface 62 C2PJMW	6700 9M PT 2G	25.0	1198.7	MW dispatch						
									C:GEN:9 MI F	562		-531.5	0.0	-0.06705		-0.06705	-360.3	171.3
									Remove unit 2 from bus 1									
			7068	-7646.7	-3043.9	-3712.9		L: Interface 63 PJMW2C	6700 9M PT 2G	25.0	1198.7	MW dispatch						
									C:GEN:9 MI F	562		531.0	0.0	0.06944		0.06705	360.3	-152.5
									C:HQ-NY-765-	777								
									Open 147827 MARCY765	NA								
									Open 147828 MASS 765	NA								
									Open 147827 MARCY765	765	147833	MARCY T1		0.04110	0.03100	624.3	387.2	
									Open 147827 MARCY765	765	147833	MARCY T1		0.04110	0.02695	543.3	337.2	
									Open 156 MCY765SW	NA								
									Open 147838 MASS230B	230	147839	MOSES E		0.00000	-0.02898	10.7	232.3	
									Open 147828 MASS 765	NA								
									Open 147837 MASS230A	230	147839	MOSES E		-0.11493	0.00000	18.8	18.8	
									Open 147828 MASS 765	NA								
									Open 158 MS765SW2	NA								
									Open 157 MS765SW1	NA								
									Decrease bus 180001 BEA-DLX	13.8	generation	by100.0	percent	dispatch				
									Set bus 181319 CHAT G3	120	load	to357.0	MW	dispatch				
									Decrease bus 180002 BEA-DL	13.8	generation	by100.0	percent	dispatch				
									Set bus 181419 CHAT G4	120	load	to357.0	MW	dispatch				
			7069	-7646.7	-3043.9	-3712.9		L: Interface 62 C2PJMW	C:HQ-NY-765-	777		-531.0	0.0	-0.06944		-0.06705	-360.3	152.5
									Open 147827 MARCY765	NA								
									Open 147828 MASS 765	NA								
									Open 147827 MARCY765	765	147833	MARCY T1		-0.04110	0.03100	624.3	387.2	
									Open 147827 MARCY765	765	147833	MARCY T1		-0.04110	0.02695	543.3	337.2	
									Open 156 MCY765SW	NA								
									Open 147838 MASS230B	230	147839	MOSES E		0.00000	-0.02898	10.7	232.3	
									Open 147828 MASS 765	NA								
									Open 147837 MASS230A	230	147839	MOSES E		0.11493	0.00000	18.8	18.8	
									Open 147828 MASS 765	NA								
									Open 158 MS765SW2	NA								
									Open 157 MS765SW1	NA								
									Decrease bus 180001 BEA-DLX	13.8	generation	by100.0	percent	dispatch				
									Set bus 181319 CHAT G3	120	load	to357.0	MW	dispatch				
									Decrease bus 180002 BEA-DL	13.8	generation	by100.0	percent	dispatch				
									Set bus 181419 CHAT G4	120	load	to357.0	MW	dispatch				
			7070	-7372.9	-2770.1	-3439.1		L: Interface 62 C2PJMW	C:SER:HC-SR	601		-455.8	0.0	-0.06182		-0.06705	-360.3	134.1
									Open 135398 SW345	345	200769	HOMER CY		0.23846	0.01771	-379.1	-509.7	
									Open 135277 FALCONER	115	200579	WARREN		0.14049	0.00721	-36.4	-89.6	
			7071	-7372.9	-2770.1	-3439.1		L: Interface 63 PJMW2C	C:SER:HC-SR	601		455.8	0.0	0.06182		0.06705	360.3	-134.1

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 135398 SW345	345	200769	HOMER CY		-0.23846	0.01771	-379.1	-509.7
									Open 135277 FALCONER	115	200579	WARREN		-0.14049	0.00721	-36.4	-89.6
			7072	-7112.5	-2509.7	-3178.8		L: Interface 63 PJMW2C			468.0	0.0	0.06580		0.06705	360.3	-116.7
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345	147830	JA FITZP		-0.01847	0.06771	-61.1	-542.7
									Open 137200 EDIC	345	147830	JA FITZP		-0.15063	0.00000	43.4	43.4
									Remove unit 1 from bus 1								
			7073	-7112.5	-2509.7	-3178.8		L: Interface 62 C2PJMW			887.7	24.0	887.7 MW dispatch		-0.06705	-360.3	116.7
									C:GEN:FITZPA	560							
									Open 136155 SCRIBA	345	147830	JA FITZP		0.01847	0.06771	-61.1	-542.7
									Open 137200 EDIC	345	147830	JA FITZP		0.15063	0.00000	43.4	43.4
									Remove unit 1 from bus 1								
			7074	-7071.6	-2468.8	-3137.9		L: Interface 63 PJMW2C			474.2	0.0	0.06705		0.06705	360.3	-113.9
									C:GEN:SEAB&O	576							
									Open 100508 SANDB115	115	100509	SB RCTOR		0.00001	0.00000	-0.1	-0.1
			7075	-7071.6	-2468.8	-3137.9	*	L: Interface 63 PJMW2C			474.2	0.0	0.06705		0.06705	360.3	-113.9
									C:GEN:SEABRO	574							
									Open 100508 SANDB115	115	100509	SB RCTOR		-0.00001	0.00000	-0.1	-0.1
									Remove unit 1 from bus 1								
			7076	-7071.6	-2468.8	-3137.9		L: Interface 62 C2PJMW			-474.2	0.0	-0.06705		-0.06705	-360.3	113.9
									C:GEN:SEAB&O	576							
									Open 100508 SANDB115	115	100509	SB RCTOR		-0.00001	0.00000	-0.1	-0.1
			7077	-7071.6	-2468.8	-3137.9	*	L: Interface 62 C2PJMW			-474.2	0.0	-0.06705		-0.06705	-360.3	113.9
									C:GEN:SEABRO	574							
									Open 100508 SANDB115	115	100509	SB RCTOR		-0.00001	0.00000	-0.1	-0.1
									Remove unit 1 from bus 1								
			7174	-5733	-1130.2	-1799.3		L: Interface 51 G-PJMEast			25.0	1318.0	2869 SBRK G1		0.00000	-0.1	-0.1
									C:GEN:SEABRO	574							
									Open 100508 SANDB115	115	100509	SB RCTOR		-0.00001	0.00000	-0.1	-0.1
									Remove unit 1 from bus 1								
			7175	-5733	-1130.2	-1799.3		L: Interface 52 PJMEast-G			240.2	0.0	0.04190		0.00000	0.1	0.1
									C:SIN:4401	684							
									Open 125001 ROCK TAV	345	126297	RAMAPO		-0.21453	0.19532	1119.3	-0.4
									C:SIN:4401	684							
			7176	-5733	-1130.2	-1799.3		L: Interface 52 PJMEast-G			240.2	0.0	0.04190		0.00000	0.1	0.1
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.21453	0.19532	1119.3	-0.4
									C:125001 ROCK	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.21453	0.19532	1119.3	-0.4
			7177	-5733	-1130.2	-1799.3		L: Interface 51 G-PJMEast			-240.2	0.0	-0.04190		0.00000	-0.1	-0.1
									C:125001 ROCK	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		-0.21453	0.19532	1119.3	-0.4
			10590	-4472.7	130.1	-538.9		L: Interface 55 PJME-NYEnoRE			1453.7	1287.0	0.03726		0.00000	1299.9	1299.9
									C:130753 FRA	200							
									Open 130753 FRASR345	345	130755	OAKDL345		-0.26927	-0.13837	-570.9	47.9
			10591	-4472.7	130.1	-538.9		L: Interface 56 NYE-PJMENoRE			-1453.7	-1287.0	-0.03726		0.00000	-1299.9	-1299.9
									C:130753 FRA	200							
									Open 130753 FRASR345	345	130755	OAKDL345		0.26927	-0.13837	-570.9	47.9
			10592	-4100.6	502.2	-166.9		L: Interface 52 PJMEast-G			-167.2	0.0	-0.04077		0.00000	0.1	0.1
									C:SIN:2301	677							
									Open 126263 BUCHANAN S	345	126290	LADENTWN		0.26721	-0.15078	-540.0	78.3
									Open 126262 BUCHANAN N	345	126360	BUCHNTA5		-0.16750	0.00285	137.1	125.4
			10593	-4100.6	502.2	-166.9		L: Interface 51 G-PJMEast			167.2	0.0	0.04077		0.00000	-0.1	-0.1
									C:SIN:2301	677							
									Open 126263 BUCHANAN S	345	126290	LADENTWN		-0.26721	-0.15078	-540.0	78.3
									Open 126262 BUCHANAN N	345	126360	BUCHNTA5		0.16750	0.00285	137.1	125.4
			10594	-3579.1	1023.7	354.7		L: Interface 51 G-PJMEast			138.9	0.0	0.03880		0.00000	-0.1	-0.1
									C:126263 BUC	86							
									Open 126263 BUCHANAN S	345	126290	LADENTWN		-0.25731	-0.15078	-540.0	-0.4
			10595	-3579.1	1023.7	354.7		L: Interface 52 PJMEast-G			-138.9	0.0	-0.03880		0.00000	0.1	0.1
									C:126263 BUC	86							
									Open 126263 BUCHANAN S	345	126290	LADENTWN		0.25731	-0.15078	-540.0	-0.4
			10596	-2682.5	1920.3	1251.3		L: Interface 52 PJMEast-G			-136.1	0.0	-0.05073		0.00000	0.1	0.1
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345	126518	REACM52		-0.20617	0.24606	660.5	0.4
			10597	-2682.5	1920.3	1251.3		L: Interface 52 PJMEast-G			-136.1	0.0	-0.05073		0.00000	0.1	0.1
									C:126298 SPR	131							

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			10598	-2682.5	1920.3	1251.3		L: Interface 51 G-PJMEast	Open 126298 SPRBROOK	345	126517	REACM51		-0.20617	0.24606	660.5	0.4	
									C:126298 SPR	131		136.1	0.0	0.05073		0.00000	-0.1	-0.1
			10599	-2682.5	1920.3	1251.3		L: Interface 51 G-PJMEast	Open 126298 SPRBROOK	345	126517	REACM51	0.20617	0.24606	660.5	0.4		
									C:126298 SPR	132		136.1	0.0	0.05073		0.00000	-0.1	-0.1
			10600	-2669	1933.8	1264.7		L: Interface 51 G-PJMEast	Open 126298 SPRBROOK	345	126518	REACM52	0.20617	0.24606	660.5	0.4		
									C:126304 W 4	365		135.4	0.0	0.05073		0.00000	-0.1	-0.1
			10601	-2669	1933.8	1264.7		L: Interface 52 PJMEast-G	Open 126304 W 49 ST	345	126517	REACM51	-0.20617	-0.24606	-657.2	-0.4		
									C:126304 W 4	365		-135.4	0.0	-0.05073		0.00000	0.1	0.1
			10602	-2669	1933.8	1264.7		L: Interface 52 PJMEast-G	Open 126304 W 49 ST	345	126517	REACM51	0.20617	-0.24606	-657.2	-0.4		
									C:126304 W 4	366		-135.4	0.0	-0.05073		0.00000	0.1	0.1
			10603	-2669	1933.8	1264.7		L: Interface 51 G-PJMEast	Open 126304 W 49 ST	345	126518	REACM52	0.20617	-0.24606	-657.2	-0.4		
									C:126304 W 4	366		135.4	0.0	0.05073		0.00000	-0.1	-0.1
			10604	-2554.7	2048.1	1379 *		L: Interface 52 PJMEast-G	Open 126304 W 49 ST	345	126518	REACM52	-0.20617	-0.24606	-657.2	-0.4		
									C:126266 DUN	96		-126.4	0.0	-0.04946		0.00000	0.1	0.1
			10605	-2554.7	2048.1	1379 *		L: Interface 51 G-PJMEast	Open 126266 DUNWODIE	345	126601	REAC72	-0.19547	0.25304	646.9	0.5		
									C:126266 DUN	96		126.4	0.0	0.04946		0.00000	-0.1	-0.1
			10614	-433.7	4169.1	3500		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 126266 DUNWODIE	345	126601	REAC72	0.19547	0.25304	646.9	0.5		
									C:126294 PLT	121		-1833.4	-1725.0	-0.24987		-0.17565	-1284.4	-1208.2
			10615	-288.5	4314.3	3645.3		L:126294 PLTVLLEY 345 137455 ATHENS	Open 126294 PLTVLLEY	345	137455	ATHENS	0.44120	-0.16823	-1244.2	-1171.3		
									C:126294 PLT	120		-1795.3	-1725.0	-0.24359		-0.16823	-1244.2	-1195.7
			10616	-14.7	4588.1	3919.1		L:146758 CHESTER 138 146771 SHOEM138	Open 126294 PLTVLLEY	345	137451	LEEDS 3	0.42902	-0.17565	-1284.4	-1233.8		
									C:SIN:4401	684		-317.8	-317.0	-0.05596		-0.03119	-175.8	-175.4
			10617	-14.7	4588.1	3919.1		L:146758 CHESTER 138 146771 SHOEM138	Open 125001 ROCK TAV	345	126297	RAMAPO	-0.12684	0.19532	1119.3	1116.5		
									C:125001 ROC	7		-317.8	-317.0	-0.05596		-0.03119	-175.8	-175.4
			10618	265.2	4868	4198.9		L:126294 PLTVLLEY 345 137451 LEEDS 3	Open 125001 ROCK TAV	345	126297	RAMAPO	-0.12684	0.19532	1119.3	1116.5		
									Base Case			-1284.4	-1331.0	-0.17565				
			10619	387.8	4990.6	4321.5		L: Interface 14 Leeds-PV	Base Case			2528.6	2662.0	0.34388				
									Base Case			-154.5	-179.0	-0.04747				
			10620	515.7	5118.5	4449.5		L:126334 ASTE-ERG 138 126445 HG 4	Base Case									
									Base Case			-1244.2	-1331.0	-0.16823				
			10621	515.8	5118.6	4449.5		L:126294 PLTVLLEY 345 137455 ATHENS	Base Case									
									Base Case									
			10622	516.4	5119.2	4450.1		L:126600 REAC71 345 126641 MOTT HAVEN	Base Case			651.4	783.0	0.25484				
									Base Case									
			10623	516.6	5119.3	4450.3		L:126266 DUNWODIE 345 126600 REAC71	Base Case			651.4	783.0	0.25484				
									Base Case									
			10624	518.2	5121	4451.9		L:126352 ASTE-WRG 138 126442 HG 1	Base Case			-154.4	-179.0	-0.04748				
									Base Case									
			10625	537.9	5140.7	4471.6		L:126266 DUNWODIE 345 126601 REAC72	Base Case			646.9	783.0	0.25304				
									Base Case									
			10626	537.9	5140.7	4471.6		L:126601 REAC72 345 126641 MOTT HAVEN	Base Case			646.9	783.0	0.25304				
									Base Case									
			10627	619.2	5222	4553		L:146758 CHESTER 138 146773 SGRLP138	Base Case			282.3	317.0	0.05596	0.03119	140.4	159.7	
									C:SIN:4401	684								
			10628	619.2	5222	4553		L:146758 CHESTER 138 146773 SGRLP138	Open 125001 ROCK TAV	345	126297	RAMAPO	0.12684	0.19532	1119.3	1240.3		
									C:125001 ROC	7		282.3	317.0	0.05596		0.03119	140.4	159.7
			10629	675.3	5278.1	4609.1		L: Interface 15 ItoNYC345	Open 125001 ROCK TAV	345	126297	RAMAPO	0.12684	0.19532	1119.3	1240.3		
									Base Case			2612.7	3288.0	1.00000				



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10630	683.5	5286.3	4617.3		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1581.7	-1725.0	-0.20961		-0.17565	-1284.4	-1404.5
								C:125000 HUR	3								
								Open 125000 HURLEY 3		345 137451 LEEDS 3			0.32995	-0.10293	-901.1	-971.4	
			10631	713.1	5315.9	4646.9		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1569.7	-1725.0	-0.21778		-0.17565	-1284.4	-1409.7
								C:125002 ROS	10								
								Open 125002 ROSETON		345 126281 FISHKILL			-0.18921	0.22267	1507.8	1666.6	
			10632	713.1	5315.9	4646.9		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1569.7	-1725.0	-0.21778		-0.17565	-1284.4	-1409.7
								C:SIN:4301	683								
								Open 125002 ROSETON		345 126281 FISHKILL			-0.18921	0.22267	1507.8	1666.6	
			10633	814.9	5417.7	4748.6		L:126298 SPRBROOK 345 126517 REACM51	345 SR		660.5	861.0	0.24606				
								Base Case									
			10634	814.9	5417.7	4748.6		L:126298 SPRBROOK 345 126518 REACM52	345 SR		660.5	861.0	0.24606				
								Base Case									
			10635	828.3	5431.1	4762.1		L:126304 W 49 ST 345 126517 REACM51	345 1		-657.2	-861.0	-0.24606				
								Base Case									
			10636	828.3	5431.1	4762.1		L:126304 W 49 ST 345 126518 REACM52	345 2		-657.2	-861.0	-0.24606				
								Base Case									
			10637	831.6	5434.4	4765.4		L: Interface 14 Leeds-PV			3108.9	3450.0	0.41016		0.34388	2528.6	2814.6
								C:125000 HUR	3								
								Open 125000 HURLEY 3		345 137451 LEEDS 3			-0.64394	-0.10293	-901.1	-986.7	
			10638	855.6	5458.4	4789.4		L: Interface 14 Leeds-PV			3085.4	3450.0	0.42610		0.34388	2528.6	2822.9
								C:125002 ROS	10								
								Open 125002 ROSETON		345 126281 FISHKILL			0.36926	0.22267	1507.8	1698.3	
			10639	855.6	5458.4	4789.4		L: Interface 14 Leeds-PV			3085.4	3450.0	0.42610		0.34388	2528.6	2822.9
								C:SIN:4301	683								
								Open 125002 ROSETON		345 126281 FISHKILL			0.36926	0.22267	1507.8	1698.3	
			10640	986.5	5589.3	4920.2		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1527.2	-1725.0	-0.20055		-0.16823	-1244.2	-1410.2
								C:125000 HUR	3								
								Open 125000 HURLEY 3		345 137451 LEEDS 3			0.31399	-0.10293	-901.1	-1002.6	
			10641	1004.6	5607.4	4938.4		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1515.7	-1725.0	-0.20833		-0.16823	-1244.2	-1413.2
								C:SIN:4301	683								
								Open 125002 ROSETON		345 126281 FISHKILL			-0.18006	0.22267	1507.8	1731.5	
			10642	1004.6	5607.4	4938.4		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1515.7	-1725.0	-0.20833		-0.16823	-1244.2	-1413.2
								C:125002 ROS	10								
								Open 125002 ROSETON		345 126281 FISHKILL			-0.18006	0.22267	1507.8	1731.5	
			10643	1015.3	5618	4949		L: Interface 12 I-TO-J			3933.7	4949.0	1.00000				
								Base Case									
			10644	1074.5	5677.3	5008.3		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1476.9	-1725.0	-0.23086		-0.17565	-1284.4	-1473.2
								C:137451 LEE	6								
								Open 137451 LEEDS 3		345 137455 ATHENS			-0.44120	0.12516	436.3	570.8	
			10645	1133.8	5736.6	5067.6		L:146758 CHESTER 138 146771 SHOEM138	138 1		-261.3	-317.0	-0.04913		-0.03119	-175.8	-211.2
								C:125001 ROC	9								
								Open 125001 ROCK TAV		345 146754 MDTN TAP			0.19956	-0.08992	-428.2	-530.1	
			10646	1143.2	5746	5077		L:126481 RAINEY8W 138 126562 8W DUM	138 1		53.7	-256.0	-0.27094				
								Base Case									
			10647	1143.2	5746	5077		L:126295 RAINEY 345 126562 8W DUM	138 8		-53.7	256.0	0.27094				
								Base Case									
			10648	1143.5	5746.3	5077.3		L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-53.8	256.0	0.27094				
								Base Case									
			10649	1168.9	5771.7	5102.6		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-626.5	-707.0	-0.06888		-0.03745	-446.4	-490.1
								C:125001 ROC	7								
								Open 125001 ROCK TAV		345 126297 RAMAPO			-0.16093	0.19532	1119.3	1347.6	
			10650	1168.9	5771.7	5102.6		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-626.5	-707.0	-0.06888		-0.03745	-446.4	-490.1
								C:SIN:4401	684								
								Open 125001 ROCK TAV		345 126297 RAMAPO			-0.16093	0.19532	1119.3	1347.6	
			10651	1195.8	5798.6	5129.5		L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1478.3	-1725.0	-0.20630		-0.17565	-1284.4	-1494.5
								C:125000 HUR	1								
								Open 125000 HURLEY 3		345 125002 ROSETON			-0.29336	0.10449	660.9	785.9	
			10652	1226.3	5829.1	5160		L:126480 RAINEY8E 138 126561 8E DUM	138 1		4.7	-342.0	-0.28273		-0.28273	98.6	-248.1
								C:GEN:NYPA A	553								
								Remove unit 1 from bus 1	4	7788 NYPACC1/2GT218.0	160.0 MW dispatch						
								Remove unit 1 from bus 1	4	7789 NYPACC1/2STG18.0	180.0 MW dispatch						
								Remove unit 1 from bus 1	4	7790 NYPACC1/2GT118.0	160.0 MW dispatch						



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 130757 WATRC345	345	200769	HOMER CY		0.22550	-0.03262	-550.2	-594.0
									Open 130836 N.WAV115	115	200676	E.SAYRE		-0.33372	-0.00790	39.9	29.3
		NA		1342.1	5944.9	5275.9	R	L: Interface 50 PJMCentral-C									
									C:SER:HCWC/N	608							
									Open 130757 WATRC345	345	200769	HOMER CY		-0.22550	-0.03262	-550.2	-594.0
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.33372	-0.00790	39.9	29.3
		10671		1342.1	5944.9	5275.9		L: Interface 50 PJMCentral-C									
									C:SER:HCWC/N	608							
									Open 130757 WATRC345	345	200769	HOMER CY		-0.22550	-0.03262	-550.2	-594.0
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.33372	-0.00790	39.9	29.3
		10674		1344.9	5947.7	5278.6		L: Interface 14 Leeds-PV									
									Open 130757 WATRC345	345	200769	HOMER CY		-0.22550	-0.03262	-550.2	-594.0
									Open 130836 N.WAV115	115	200676	E.SAYRE		0.33372	-0.00790	39.9	29.3
		10675		1348.7	5951.5	5282.4		L: Interface 49 C-PJMCentral									
									C:125000 HUR	1							
									Open 125000 HURLEY 3	345	125002	ROSETON		0.57253	0.10449	660.9	801.5
									C:SER:HC-WC	602							
									Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		0.06948	0.00721	-36.4	-26.7
		NA		1348.7	5951.5	5282.4	R	L: Interface 50 PJMCentral-C									
									C:SER:HC-WC	602							
									Open 130757 WATRC345	345	200769	HOMER CY		-0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		-0.06948	0.00721	-36.4	-26.7
									C:SER:HC-WC	602							
									Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		0.06948	0.00721	-36.4	-26.7
		10676		1348.7	5951.5	5282.4		L: Interface 50 PJMCentral-C									
									C:SER:HC-WC	602							
									Open 130757 WATRC345	345	200769	HOMER CY		-0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		-0.06948	0.00721	-36.4	-26.7
									C:SER:HC-WC	602							
									Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		0.06948	0.00721	-36.4	-26.7
		10679		1386	5988.8	5319.8		L: Interface 11 DUN-SOUTH OP									
									Open 130757 WATRC345	345	200769	HOMER CY		0.23837	-0.03262	-550.2	-594.2
									Open 135277 FALCONER	115	200579	WARREN		0.06948	0.00721	-36.4	-26.7
		10680		1394.9	5997.7	5328.6		L:126600 REAC71 345 126641 MOTT HAVEN	345	3					0.25484	651.4	1006.9
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345	126518	REACM52		0.18842	0.24606	660.5	1003.7
		10681		1394.9	5997.7	5328.6		L:126600 REAC71 345 126641 MOTT HAVEN	345	3					0.25484	651.4	1006.9
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345	126517	REACM51		0.18842	0.24606	660.5	1003.7
		10682		1395	5997.8	5328.8		L:126266 DUNWODIE 345 126600 REAC71	345	SR					0.25484	651.4	1006.9
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345	126517	REACM51		0.18842	0.24606	660.5	1003.8
		10683		1395	5997.8	5328.8		L:126266 DUNWODIE 345 126600 REAC71	345	SR					0.25484	651.4	1006.9
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345	126518	REACM52		0.18842	0.24606	660.5	1003.8
		10684		1397	5999.7	5330.7		L:126600 REAC71 345 126641 MOTT HAVEN	345	3					0.25484	651.4	1007.4
									C:126304 W 4	365							
									Open 126304 W 49 ST	345	126517	REACM51		-0.18842	-0.24606	-657.2	-1000.9
		10685		1397	5999.7	5330.7		L:126600 REAC71 345 126641 MOTT HAVEN	345	3					0.25484	651.4	1007.4
									C:126304 W 4	366							
									Open 126304 W 49 ST	345	126518	REACM52		-0.18842	-0.24606	-657.2	-1000.9
		10686		1397.1	5999.9	5330.8		L:126266 DUNWODIE 345 126600 REAC71	345	SR					0.25484	651.4	1007.4
									C:126304 W 4	366							
									Open 126304 W 49 ST	345	126518	REACM52		-0.18842	-0.24606	-657.2	-1001.0
		10687		1397.1	5999.9	5330.8		L:126266 DUNWODIE 345 126600 REAC71	345	SR					0.25484	651.4	1007.4
									C:126304 W 4	365							
									Open 126304 W 49 ST	345	126517	REACM51		-0.18842	-0.24606	-657.2	-1001.0
		10688		1403.4	6006.2	5337.1		L: Interface 49 C-PJMCentral									
									C:130757 WAT	373							
									Open 130757 WATRC345	345	200769	HOMER CY		0.23761	-0.03262	-550.2	-596.0
									C:130757 WAT	373							
									Open 130757 WATRC345	345	200769	HOMER CY		-0.23761	-0.03262	-550.2	-596.0
		NA		1403.4	6006.2	5337.1	R	L: Interface 50 PJMCentral-C									
									C:130757 WAT	373							





From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10719	1508.4	6111.2	5442.1		L:126481 RAINEY8W 138 126507 VERNON-W	Open 126298 SPRBROOK		345 126301 TREMONT			0.03561	0.00000	480.6	480.6
									138 1		-36.7	372.0	0.27094		0.27094	-53.8	354.9
									C:BUS:TREMONT	632							
									Open 126466 SECT 11		138 126470 38X01 T			0.03561	0.00000	119.8	119.8
									Open 126466 SECT 11		138 126471 38X02 T			0.03561	0.00000	119.8	119.8
									Open 126462 PARK TR1	NA							
									Open 126467 SECT 12		138 126472 38X03 T			0.03561	0.00000	124.3	124.3
									Open 126467 SECT 12		138 126473 38X04 T			0.03561	0.00000	117.5	117.5
									Open 126463 PARK TR2	NA							
									Open 126301 TREMONT	NA							
									Open 126301 TREMONT	NA							
									Open 126298 SPRBROOK		345 126301 TREMONT			-0.00386	0.00000	-0.8	-0.8
			10720	1508.5	6111.3	5442.3		L:126481 RAINEY8W 138 126507 VERNON-W	138 1		-36.7	372.0	0.27094		0.27094	-53.8	354.9
									C:126298 SPR	363							
									Open 126298 SPRBROOK		345 126301 TREMONT			0.03561	0.00000	480.6	480.6
			10721	1509.5	6112.3	5443.2		L:126480 RAINEY8E 138 126561 8E DUM	138 1		85.9	-342.0	-0.28349		-0.28273	98.6	-328.2
									C:BUS:GOWANU	625							
									Open 126287 GOWANUSS		345 126591 GOWANUS 42SR			0.00477	-0.05299	0.0	-80.0
									Open 126287 GOWANUSS		345 126429 GOWNUS2T			-0.14837	0.00000	100.0	100.0
									Open 126287 GOWANUSS		345 126622 GATE 3			0.00000	0.00000	45.4	45.4
									Open 126287 GOWANUSS		345 126623 GATE 4			0.00000	0.00000	41.4	41.4
									Open 126285 GOTHLS S		345 126287 GOWANUSS			0.00943	-0.05339	444.1	363.5
									Open 126286 GOWANUSN		345 126287 GOWANUSS			-0.00772	0.00000	257.3	257.3
			10722	1509.5	6112.3	5443.2		L:126295 RAINEY 345 126561 8E DUM	138 8		-85.9	342.0	0.28349		0.28273	-98.6	328.2
									C:BUS:GOWANU	625							
									Open 126287 GOWANUSS		345 126591 GOWANUS 42SR			-0.00477	-0.05299	0.0	-80.0
									Open 126287 GOWANUSS		345 126429 GOWNUS2T			0.14837	0.00000	100.0	100.0
									Open 126287 GOWANUSS		345 126622 GATE 3			0.00000	0.00000	45.4	45.4
									Open 126287 GOWANUSS		345 126623 GATE 4			0.00000	0.00000	41.4	41.4
									Open 126285 GOTHLS S		345 126287 GOWANUSS			-0.00943	-0.05339	444.1	363.5
									Open 126286 GOWANUSN		345 126287 GOWANUSS			0.00772	0.00000	257.3	257.3
			10723	1509.8	6112.5	5443.5		L:126480 RAINEY8E 138 126561 8E DUM	138 1		86.0	-342.0	-0.28348		-0.28273	98.6	-328.3
									C:BUS:GOWANU	624							
									Open 126286 GOWANUSN		345 126287 GOWANUSS			0.00940	0.00040	0.0	0.6
									Open 126286 GOWANUSN		345 126590 GOWANUS 41SR			0.01418	-0.05295	0.0	-79.9
									Open 126286 GOWANUSN		345 126427 GOWNUS1T			-0.13851	0.00000	100.0	100.0
									Open 126286 GOWANUSN		345 126620 GATE 1			0.00940	0.00000	45.4	45.4
									Open 126286 GOWANUSN		345 126621 GATE 2			0.00940	0.00000	45.4	45.4
									Open 126283 GOTHLS N		345 126286 GOWANUSN			0.00169	0.00000	253.3	253.3
			10724	1509.8	6112.6	5443.5		L:126295 RAINEY 345 126561 8E DUM	138 8		-86.0	342.0	0.28348		0.28273	-98.6	328.3
									C:BUS:GOWANU	624							
									Open 126286 GOWANUSN		345 126287 GOWANUSS			-0.00940	0.00040	0.0	0.6
									Open 126286 GOWANUSN		345 126590 GOWANUS 41SR			-0.01418	-0.05295	0.0	-79.9
									Open 126286 GOWANUSN		345 126427 GOWNUS1T			0.13851	0.00000	100.0	100.0
									Open 126286 GOWANUSN		345 126620 GATE 1			-0.00940	0.00000	45.4	45.4
									Open 126286 GOWANUSN		345 126621 GATE 2			-0.00940	0.00000	45.4	45.4
									Open 126283 GOTHLS N		345 126286 GOWANUSN			-0.00169	0.00000	253.3	253.3
			10725	1511.7	6114.5	5445.4		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-86.5	342.0	0.28349		0.28273	-99.2	328.2
									C:BUS:GOWANU	625							
									Open 126287 GOWANUSS		345 126591 GOWANUS 42SR			-0.00477	-0.05299	0.0	-80.1
									Open 126287 GOWANUSS		345 126429 GOWNUS2T			0.14837	0.00000	100.0	100.0
									Open 126287 GOWANUSS		345 126622 GATE 3			0.00000	0.00000	45.4	45.4
									Open 126287 GOWANUSS		345 126623 GATE 4			0.00000	0.00000	41.4	41.4
									Open 126285 GOTHLS S		345 126287 GOWANUSS			-0.00943	-0.05339	444.1	363.4
									Open 126286 GOWANUSN		345 126287 GOWANUSS			0.00772	0.00000	257.3	257.3
			10726	1512	6114.8	5445.7		L:126480 RAINEY8E 138 126506 VERNON-E	138 1		-86.6	342.0	0.28348		0.28273	-99.2	328.3
									C:BUS:GOWANU	624							
									Open 126286 GOWANUSN		345 126287 GOWANUSS			-0.00940	0.00040	0.0	0.6
									Open 126286 GOWANUSN		345 126590 GOWANUS 41SR			-0.01418	-0.05295	0.0	-80.1
									Open 126286 GOWANUSN		345 126427 GOWNUS1T			0.13851	0.00000	100.0	100.0
									Open 126286 GOWANUSN		345 126620 GATE 1			-0.00940	0.00000	45.4	45.4
									Open 126286 GOWANUSN		345 126621 GATE 2			-0.00940	0.00000	45.4	45.4
									Open 126283 GOTHLS N		345 126286 GOWANUSN			-0.00169	0.00000	253.3	253.3

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10727	1513.5	6116.3	5447.3		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		38.1	-372.0	-0.27094		-0.27094	53.7	-356.3
									C:SPRN-ACDMY	779							
									Open 126298	SPRBROOK	345	126847	ACADEMY	-0.03402	0.00000	461.4	461.4
									Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
									Open 126781	SCK-PARE	138	126847	ACADEMY	0.03790	0.00000	0.7	0.7
			10728	1513.5	6116.3	5447.3		L:126295 RAINNEY 345 126562 8W DUM	138 8		-38.1	372.0	0.27094		0.27094	-53.7	356.3
									C:SPRN-ACDMY	779							
									Open 126298	SPRBROOK	345	126847	ACADEMY	0.03402	0.00000	461.4	461.4
									Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
									Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03790	0.00000	0.7	0.7
			10729	1513.8	6116.6	5447.6		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-38.2	372.0	0.27094		0.27094	-53.8	356.3
									C:SPRN-ACDMY	779							
									Open 126298	SPRBROOK	345	126847	ACADEMY	0.03402	0.00000	461.4	461.4
									Open 126780	SCK-PARW	138	126847	ACADEMY	0.00000	0.00000	-230.4	-230.4
									Open 126781	SCK-PARE	138	126847	ACADEMY	-0.03790	0.00000	0.7	0.7
			10730	1521.7	6124.5	5455.4		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		41.4	-372.0	-0.27168		-0.27094	53.7	-358.5
									C:BUS:GOWANU	625							
									Open 126287	GOWANUSS	345	126591	GOWANUS 42SR	0.00466	-0.05299	0.0	-80.6
									Open 126287	GOWANUSS	345	126429	GOWNUS2T	-0.14499	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4
									Open 126285	GOTHLS S	345	126287	GOWANUSS	0.00921	-0.05339	444.1	362.9
									Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00750	0.00000	257.3	257.3
			10731	1521.7	6124.5	5455.4		L:126295 RAINNEY 345 126562 8W DUM	138 8		-41.4	372.0	0.27168		0.27094	-53.7	358.5
									C:BUS:GOWANU	625							
									Open 126287	GOWANUSS	345	126591	GOWANUS 42SR	-0.00466	-0.05299	0.0	-80.6
									Open 126287	GOWANUSS	345	126429	GOWNUS2T	0.14499	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4
									Open 126285	GOTHLS S	345	126287	GOWANUSS	-0.00921	-0.05339	444.1	362.9
									Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00750	0.00000	257.3	257.3
			10732	1521.9	6124.7	5455.7		L:126481 RAINNEY8W 138 126562 8W DUM	138 1		41.5	-372.0	-0.27167		-0.27094	53.7	-358.6
									C:BUS:GOWANU	624							
									Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00918	0.00040	0.0	0.6
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	0.01385	-0.05295	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	-0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLS N	345	126286	GOWANUSN	0.00169	0.00000	253.3	253.3
			10733	1521.9	6124.7	5455.7		L:126295 RAINNEY 345 126562 8W DUM	138 8		-41.5	372.0	0.27167		0.27094	-53.7	358.6
									C:BUS:GOWANU	624							
									Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00918	0.00040	0.0	0.6
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	-0.01385	-0.05295	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	-0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	-0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLS N	345	126286	GOWANUSN	-0.00169	0.00000	253.3	253.3
			10734	1522	6124.8	5455.7		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-41.5	372.0	0.27168		0.27094	-53.8	358.5
									C:BUS:GOWANU	625							
									Open 126287	GOWANUSS	345	126591	GOWANUS 42SR	-0.00466	-0.05299	0.0	-80.6
									Open 126287	GOWANUSS	345	126429	GOWNUS2T	0.14499	0.00000	100.0	100.0
									Open 126287	GOWANUSS	345	126622	GATE 3	0.00000	0.00000	45.4	45.4
									Open 126287	GOWANUSS	345	126623	GATE 4	0.00000	0.00000	41.4	41.4
									Open 126285	GOTHLS S	345	126287	GOWANUSS	-0.00921	-0.05339	444.1	362.9
									Open 126286	GOWANUSN	345	126287	GOWANUSS	0.00750	0.00000	257.3	257.3
			10735	1522.3	6125.1	5456		L:126481 RAINNEY8W 138 126507 VERNON-W	138 1		-41.5	372.0	0.27167		0.27094	-53.8	358.6
									C:BUS:GOWANU	624							
									Open 126286	GOWANUSN	345	126287	GOWANUSS	-0.00918	0.00040	0.0	0.6
									Open 126286	GOWANUSN	345	126590	GOWANUS 41SR	-0.01385	-0.05295	0.0	-80.6
									Open 126286	GOWANUSN	345	126427	GOWNUS1T	0.13536	0.00000	100.0	100.0
									Open 126286	GOWANUSN	345	126620	GATE 1	-0.00918	0.00000	45.4	45.4
									Open 126286	GOWANUSN	345	126621	GATE 2	-0.00918	0.00000	45.4	45.4
									Open 126283	GOTHLS N	345	126286	GOWANUSN	-0.00169	0.00000	253.3	253.3









From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			21321	1846	6448.8	5779.7		L: Interface 32 F-To-G	Open 130750 COOPC345	345	130753 FRASR345	0.14264	-0.14577	-997.0	-1258.1			
									Base Case		3723.9	4643.0	0.49792					
			21322	1855.9	6458.7	5789.6		L:146758 CHESTER 138 146773 SGRLF138	138 1		225.8	317.0	0.04913	0.03119	140.4	198.2		
									C:125001 ROC	9								
			21323	1895.4	6498.2	5829.1		L:146758 CHESTER 138 146771 SHOEM138	138 1		-239.9	-317.0	-0.04065	-0.03119	-175.8	-235.0		
									C:SIN:4301	683								
			21324	1895.4	6498.2	5829.1		L:146758 CHESTER 138 146771 SHOEM138	138 1		-239.9	-317.0	-0.04065	-0.03119	-175.8	-235.0		
									Open 125002 ROSETON	345	126281 FISHKILL	-0.04251	0.22267	1507.8	1929.8			
									C:125002 ROS	10								
			21325	1902.4	6505.2	5836.2		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		711.2	1196.0	0.25484	0.25484	651.4	1136.2		
									Open 125002 ROSETON	345	126281 FISHKILL	-0.04251	0.22267	1507.8	1929.8			
									C:GEN:SCS AS	554								
									Remove unit 1 from bus 1	2	6667 AST ENRG2-G118.0	250.0 MW dispatch						
									Remove unit 1 from bus 1	2	6668 AST ENRG2-G218.0	150.0 MW dispatch						
									Remove unit 1 from bus 1	2	6669 AST ENRG2-G318.0	150.0 MW dispatch						
			21326	1902.6	6505.4	5836.4		L:126266 DUNWODIE 345 126600 REAC71	345 SR		711.1	1196.0	0.25484	0.25484	651.4	1136.2		
									C:GEN:SCS AS	554								
									Remove unit 1 from bus 1	2	6667 AST ENRG2-G118.0	250.0 MW dispatch						
									Remove unit 1 from bus 1	2	6668 AST ENRG2-G218.0	150.0 MW dispatch						
									Remove unit 1 from bus 1	2	6669 AST ENRG2-G318.0	150.0 MW dispatch						
			21327	1918.6	6521.4	5852.4		L:125002 ROSETON 345 126281 FISHKILL	345 1		1507.8	1935.0	0.22267					
									Base Case									
			21328	1935.5	6538.3	5869.2		L:126266 DUNWODIE 345 126601 REAC72	345 SR		706.3	1196.0	0.25304	0.25304	646.9	1136.6		
									C:GEN:SCS AS	554								
									Remove unit 1 from bus 1	2	6667 AST ENRG2-G118.0	250.0 MW dispatch						
									Remove unit 1 from bus 1	2	6668 AST ENRG2-G218.0	150.0 MW dispatch						
									Remove unit 1 from bus 1	2	6669 AST ENRG2-G318.0	150.0 MW dispatch						
			21329	1935.5	6538.3	5869.2		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		706.3	1196.0	0.25304	0.25304	646.9	1136.6		
									C:GEN:SCS AS	554								
									Remove unit 1 from bus 1	2	6667 AST ENRG2-G118.0	250.0 MW dispatch						
									Remove unit 1 from bus 1	2	6668 AST ENRG2-G218.0	150.0 MW dispatch						
									Remove unit 1 from bus 1	2	6669 AST ENRG2-G318.0	150.0 MW dispatch						
			21330	1936.9	6539.7	5870.7		L:126353 ASTORIA WEST 138 126446 HG 5	138 1		76.5	197.0	0.06219					
									Base Case									
			21331	1956	6558.8	5889.8		L: Interface 14 Leeds-PV	C:SIN:1201	668	2752.2	3450.0	0.35674	0.34388	2528.6	3201.3		
									Open 126263 BUCHANAN S	345	126291 MILLWOOD	0.08531	0.07539	786.5	934.0			
									Open 126263 BUCHANAN S	345	126291 MILLWOOD	0.08531	0.07539	786.5	934.0			
									Open 126263 BUCHANAN S	345	126290 LADENTWN	-0.08324	0.00000	39.8	39.8			
									Open 126263 BUCHANAN	NA								
									Open 147798 IP#3 GEN	NA								
									Open 147798 IP#3 GEN	NA								
									Remove unit 1 from bus 1	4	7798 IP#3 GEN	22.0	1072.8 MW dispatch					
			21332	1956	6558.8	5889.8		L: Interface 14 Leeds-PV	C:SIN:1301	669	2752.2	3450.0	0.35674	0.34388	2528.6	3201.3		
									Open 126263 BUCHANAN S	345	126291 MILLWOOD	0.08531	0.07539	786.5	934.0			
									Open 126263 BUCHANAN S	345	126291 MILLWOOD	0.08531	0.07539	786.5	934.0			
									Open 126263 BUCHANAN S	345	126290 LADENTWN	-0.08324	0.00000	39.8	39.8			
									Open 126263 BUCHANAN	NA								
									Open 147798 IP#3 GEN	NA								
									Open 147798 IP#3 GEN	NA								
									Remove unit 1 from bus 1	4	7798 IP#3 GEN	22.0	1072.8 MW dispatch					
			21333	1985.7	6588.5	5919.5	*	L:126294 PLTVLLEY 345 137451 LEEDS 3	345 2		-1356.6	-1725.0	-0.18552	-0.17565	-1284.4	-1633.2		
									C:SER:CMT344	594								
									Open 130750 COOPC345	345	146754 MDTN TAP	-0.09360	0.12737	875.2	1128.2			
									Open 125001 ROCK TAV	345	146754 MDTN TAP	-0.02274	-0.08992	-428.2	-606.7			
			21335	2017	6619.8	5950.8		L:126274 EL3ST 47 345 126870 TX17 T	69.0 17		161.5	272.0	0.05477					
									Base Case									
			21336	2018.5	6621.3	5952.2		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		681.9	1196.0	0.25468	0.25484	651.4	1165.8		
									C:SIN:3601	682								
									Open 4996 LINDEN	230	126321 GOETHALS	0.08725	0.00000	334.6	334.6			

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									Open 126282 FRESH KILLS	345	126283	GOTHLS N		0.00014	-0.02550	-25.6	-77.1
									Open 126283 GOTHLS N	345	126286	GOWANUSN		0.00302	-0.05254	444.1	338.1
			21337	2018.7	6621.5	5952.4		L:126266 DUNWODIE 345 126600 REAC71	345 SR		681.9	1196.0	0.25468		0.25484	651.4	1165.8
									C:SIN:3601	682							
									Open 4996 LINDEN	230	126321	GOETHALS		0.08725	0.00000	334.6	334.6
									Open 126282 FRESH KILLS	345	126283	GOTHLS N		0.00014	-0.02550	-25.6	-77.1
									Open 126283 GOTHLS N	345	126286	GOWANUSN		0.00302	-0.05254	444.1	338.1
			21338	2020.1	6622.9	5953.9		L:126600 REAC71 345 126641 MOTT HAVEN	345 3		689.8	1196.0	0.25055		0.25484	651.4	1166.2
									C:GEN:RAVNWD	775							
									Open 126652 RAV 3	22.0	126865	RAV3 60M		0.00000	-0.05362	481.0	372.7
									Open 126652 RAV 3	22.0	126866	RAV3 60L		-0.03996	0.10724	-962.0	-745.4
			21339	2020.3	6623.1	5954.1		L:126266 DUNWODIE 345 126600 REAC71	345 SR		689.8	1196.0	0.25055		0.25484	651.4	1166.2
									C:GEN:RAVNWD	775							
									Open 126652 RAV 3	22.0	126865	RAV3 60M		0.00000	-0.05362	481.0	372.7
									Open 126652 RAV 3	22.0	126866	RAV3 60L		-0.03996	0.10724	-962.0	-745.4
			21340	2032.6	6635.4	5966.3	*	L:126600 REAC71 345 126641 MOTT HAVEN	345 3		671.1	1196.0	0.25827		0.25484	651.4	1169.4
									C:125001 ROC	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.01755	0.19532	1119.3	1516.3
			21342	2032.7	6635.5	5966.5	*	L:126266 DUNWODIE 345 126600 REAC71	345 SR		671.0	1196.0	0.25827		0.25484	651.4	1169.4
									C:125001 ROC	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.01755	0.19532	1119.3	1516.4
			21353	2049	6651.7	5982.7		L:130750 COOPC345 345 130753 FRASR345	345 1		-1318.2	-1703.0	-0.18779		-0.14577	-997.0	-1295.7
									C:130750 COC	196							
									Open 130750 COOPC345	345	147833	MARCY T1		0.43312	-0.09702	-741.6	-940.3
			21354	2051.6	6654.4	5985.3		L:126266 DUNWODIE 345 126601 REAC72	345 SR		677.2	1196.0	0.25288		0.25304	646.9	1166.0
									C:SIN:3601	682							
									Open 4996 LINDEN	230	126321	GOETHALS		0.08664	0.00000	334.6	334.6
									Open 126282 FRESH KILLS	345	126283	GOTHLS N		0.00014	-0.02550	-25.6	-77.9
									Open 126283 GOTHLS N	345	126286	GOWANUSN		0.00300	-0.05254	444.1	336.3
			21355	2051.6	6654.4	5985.3		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		677.2	1196.0	0.25288		0.25304	646.9	1166.0
									C:SIN:3601	682							
									Open 4996 LINDEN	230	126321	GOETHALS		0.08664	0.00000	334.6	334.6
									Open 126282 FRESH KILLS	345	126283	GOTHLS N		0.00014	-0.02550	-25.6	-77.9
									Open 126283 GOTHLS N	345	126286	GOWANUSN		0.00300	-0.05254	444.1	336.3
			21356	2053.7	6656.5	5987.5		L:126266 DUNWODIE 345 126601 REAC72	345 SR		685.1	1196.0	0.24878		0.25304	646.9	1166.6
									C:GEN:RAVNWD	775							
									Open 126652 RAV 3	22.0	126865	RAV3 60M		0.00000	-0.05362	481.0	370.9
									Open 126652 RAV 3	22.0	126866	RAV3 60L		-0.03967	0.10724	-962.0	-741.8
			21357	2053.7	6656.5	5987.5		L:126601 REAC72 345 126641 MOTT HAVEN	345 4		685.1	1196.0	0.24878		0.25304	646.9	1166.6
									C:GEN:RAVNWD	775							
									Open 126652 RAV 3	22.0	126865	RAV3 60M		0.00000	-0.05362	481.0	370.9
									Open 126652 RAV 3	22.0	126866	RAV3 60L		-0.03967	0.10724	-962.0	-741.8
			21361	2065.2	6668	5998.9	*	L:126266 DUNWODIE 345 126601 REAC72	345 SR		666.4	1196.0	0.25644		0.25304	646.9	1169.5
									C:125001 ROC	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.01743	0.19532	1119.3	1522.7
			21363	2065.2	6668	5998.9	*	L:126601 REAC72 345 126641 MOTT HAVEN	345 4		666.4	1196.0	0.25644		0.25304	646.9	1169.5
									C:125001 ROC	7							
									Open 125001 ROCK TAV	345	126297	RAMAPO		0.01743	0.19532	1119.3	1522.7
			21451	2116.6	6719.4	6050.3		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27973		0.19532	1119.3	1532.8
									C:125002 ROS	10							
									Open 125002 ROSETON	345	126281	FISHKILL		0.37909	0.22267	1507.8	1979.1
			21452	2116.6	6719.4	6050.3		L:125001 ROCK TAV 345 126297 RAMAPO	345 1		1690.9	2283.0	0.27973		0.19532	1119.3	1532.8
									C:SIN:4301	683							
									Open 125002 ROSETON	345	126281	FISHKILL		0.37909	0.22267	1507.8	1979.1
			21521	2130.4	6733.2	6064.2		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17451		-0.16823	-1244.2	-1602.6
									C:SIN:1301	669							
									Open 126263 BUCHANAN S	345	126291	MILLWOOD		-0.04160	0.07539	786.5	947.1
									Open 126263 BUCHANAN S	345	126291	MILLWOOD		-0.04160	0.07539	786.5	947.1
									Open 126263 BUCHANAN S	345	126290	LADENTWN		0.04059	0.00000	39.8	39.8
									Open 126263 BUCHANAN NA								
									Open 147798 IP#3 GEN NA								
									Open 147798 IP#3 GEN NA								
									7798 IP#3 GEN	22.0	1072.8	MW dispatch					

Remove unit 1 from bus 1

4

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21522	2130.4	6733.2	6064.2		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1353.2	-1725.0	-0.17451		-0.16823	-1244.2	-1602.6
									C:SIN:1201	668							
									Open 126263 BUCHANAN S	345 126291 MILLWOOD				-0.04160	0.07539	786.5	947.1
									Open 126263 BUCHANAN S	345 126291 MILLWOOD				-0.04160	0.07539	786.5	947.1
									Open 126263 BUCHANAN S	345 126290 LADENTWN				0.04059	0.00000	39.8	39.8
									Open 126263 BUCHANAN	NA							
									Open 147798 IP#3 GEN	NA							
									Open 147798 IP#3 GEN	NA							
									7798 IP#3 GEN	22.0 1072.8 MW dispatch							
			24595	2142.9	6745.7	6076.7		L:126298 SPRBROOK 345 126518 REACM52	345 SR		797.4	1434.0	0.29707		0.24606	660.5	1187.8
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345 126517 REACM51				0.20729	0.24606	660.5	1187.8
			24596	2142.9	6745.7	6076.7		L:126298 SPRBROOK 345 126517 REACM51	345 SR		797.4	1434.0	0.29707		0.24606	660.5	1187.8
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345 126518 REACM52				0.20729	0.24606	660.5	1187.8
			24635	2145.2	6748	6079		L:126298 SPRBROOK 345 126517 REACM51	345 SR		796.7	1434.0	0.29707		0.24606	660.5	1188.3
									C:126304 W 4	366							
									Open 126304 W 49 ST	345 126518 REACM52				-0.20729	-0.24606	-657.2	-1185.0
			24636	2145.2	6748	6079		L:126298 SPRBROOK 345 126518 REACM52	345 SR		796.7	1434.0	0.29707		0.24606	660.5	1188.3
									C:126304 W 4	365							
									Open 126304 W 49 ST	345 126517 REACM51				-0.20729	-0.24606	-657.2	-1185.0
			24680	2149.2	6752	6082.9		L: Interface 14 Leeds-FV			2669.5	3450.0	0.36316		0.34388	2528.6	3267.7
									C:SER:CMT344	594							
									Open 130750 COOPC345	345 146754 MDTN TAP				0.18267	0.12737	875.2	1149.0
									Open 125001 ROCK TAV	345 146754 MDTN TAP				0.04438	-0.08992	-428.2	-621.4
			24710	2151.4	6754.2	6085.1		L: Interface 14 Leeds-FV			2670.3	3450.0	0.36241		0.34388	2528.6	3268.5
									C:130750 COO	196							
									Open 130750 COOPC345	345 147833 MARCY T1				-0.19103	-0.09702	-741.6	-950.3
			24724	2154.1	6756.8	6087.8		L:126304 W 49 ST 345 126517 REACM51	345 1		-794.1	-1434.0	-0.29707		-0.24606	-657.2	-1187.2
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345 126518 REACM52				-0.20729	0.24606	660.5	1190.5
			24725	2154.1	6756.8	6087.8		L:126304 W 49 ST 345 126518 REACM52	345 2		-794.1	-1434.0	-0.29707		-0.24606	-657.2	-1187.2
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345 126517 REACM51				-0.20729	0.24606	660.5	1190.5
			24742	2156.4	6759.2	6090.1		L:126304 W 49 ST 345 126517 REACM51	345 1		-793.4	-1434.0	-0.29707		-0.24606	-657.2	-1187.8
									C:126304 W 4	366							
									Open 126304 W 49 ST	345 126518 REACM52				0.20729	-0.24606	-657.2	-1187.8
			24743	2156.4	6759.2	6090.1		L:126304 W 49 ST 345 126518 REACM52	345 2		-793.4	-1434.0	-0.29707		-0.24606	-657.2	-1187.8
									C:126304 W 4	365							
									Open 126304 W 49 ST	345 126517 REACM51				0.20729	-0.24606	-657.2	-1187.8
			27802	2172.3	6775.1	6106.1		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-521.5	-1196.0	-0.31049		-0.26269	-393.2	-963.9
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345 126517 REACM51				-0.19423	0.24606	660.5	1195.0
			27803	2172.3	6775.1	6106.1		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-521.5	-1196.0	-0.31049		-0.26269	-393.2	-963.9
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345 126518 REACM52				-0.19423	0.24606	660.5	1195.0
			27897	2174.4	6777.2	6108.1		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-520.9	-1196.0	-0.31049		-0.26269	-393.2	-964.4
									C:126304 W 4	366							
									Open 126304 W 49 ST	345 126518 REACM52				0.19423	-0.24606	-657.2	-1192.2
			27898	2174.4	6777.2	6108.1		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-520.9	-1196.0	-0.31049		-0.26269	-393.2	-964.4
									C:126304 W 4	365							
									Open 126304 W 49 ST	345 126517 REACM51				0.19423	-0.24606	-657.2	-1192.2
			27989	2182.9	6785.7	6116.7		L:130750 COOPC345 345 146754 MDTN TAP	345 1		1353.2	1793.0	0.20147		0.12737	875.2	1153.3
									C:125001 ROC	8							
									Open 125001 ROCK TAV	345 130750 COOPC345				-0.64201	-0.11541	-744.5	-996.4
			28131	2201.8	6804.5	6135.5	*	L: Interface 14 Leeds-FV			2653.0	3450.0	0.36198		0.34388	2528.6	3285.8
									C:130750 COO	195							
									Open 130750 COOPC345	345 146754 MDTN TAP				0.14209	0.12737	875.2	1155.7
			28178	2218.1	6820.9	6151.8		L:126353 ASTORIA WEST 138 126587 HG6 TAP2	138 1		75.9	197.0	0.05458				
									Base Case								
			28226	2227.7	6830.5	6161.4		L:126298 SPRBROOK 345 126518 REACM52	345 SR		780.9	1434.0	0.29317		0.24606	660.5	1208.6
									C:126600 REA	370							
									Open 126600 REAC71	345 126641 MOTT HAVEN				0.18486	0.25484	651.4	1219.1

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28227	2227.7	6830.5	6161.4		L:126298 SPRBROOK 345 126517 REACM51	345 SR		780.9	1434.0	0.29317		0.24606	660.5	1208.6
								C:126600 REA	370								
								Open 126600 REACT71		345 126641 MOTT HAVEN			0.18486	0.25484	651.4	1219.1	
			28228	2227.7	6830.5	6161.5		L:126298 SPRBROOK 345 126517 REACM51	345 SR		780.9	1434.0	0.29317		0.24606	660.5	1208.6
								C:126266 DUN	95								
								Open 126266 DUNWODIE		345 126600 REACT71			0.18486	0.25484	651.4	1219.1	
			28229	2227.7	6830.5	6161.5		L:126298 SPRBROOK 345 126518 REACM52	345 SR		780.9	1434.0	0.29317		0.24606	660.5	1208.6
								C:126266 DUN	95								
								Open 126266 DUNWODIE		345 126600 REACT71			0.18486	0.25484	651.4	1219.1	
			28246	2234.3	6837.1	6168		L:126298 SPRBROOK 345 126518 REACM52	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126266 DUN	96								
								Open 126266 DUNWODIE		345 126601 REACT72			0.18456	0.25304	646.9	1212.3	
			28247	2234.3	6837.1	6168		L:126298 SPRBROOK 345 126517 REACM51	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126266 DUN	96								
								Open 126266 DUNWODIE		345 126601 REACT72			0.18456	0.25304	646.9	1212.3	
			28248	2234.3	6837.1	6168		L:126298 SPRBROOK 345 126517 REACM51	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126601 REA	371								
								Open 126601 REACT72		345 126641 MOTT HAVEN			0.18456	0.25304	646.9	1212.3	
			28249	2234.3	6837.1	6168		L:126298 SPRBROOK 345 126518 REACM52	345 SR		779.9	1434.0	0.29276		0.24606	660.5	1210.3
								C:126601 REA	371								
								Open 126601 REACT72		345 126641 MOTT HAVEN			0.18456	0.25304	646.9	1212.3	
			28258	2239	6841.8	6172.7		L:126304 W 49 ST 345 126518 REACM52	345 2		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126600 REA	370								
								Open 126600 REACT71		345 126641 MOTT HAVEN			-0.18486	0.25484	651.4	1222.0	
			28259	2239	6841.8	6172.7		L:126304 W 49 ST 345 126517 REACM51	345 1		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126600 REA	370								
								Open 126600 REACT71		345 126641 MOTT HAVEN			-0.18486	0.25484	651.4	1222.0	
			28260	2239	6841.8	6172.8		L:126304 W 49 ST 345 126518 REACM52	345 2		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126266 DUN	95								
								Open 126266 DUNWODIE		345 126600 REACT71			-0.18486	0.25484	651.4	1221.9	
			28261	2239	6841.8	6172.8		L:126304 W 49 ST 345 126517 REACM51	345 1		-777.6	-1434.0	-0.29317		-0.24606	-657.2	-1208.1
								C:126266 DUN	95								
								Open 126266 DUNWODIE		345 126600 REACT71			-0.18486	0.25484	651.4	1221.9	
			28272	2245.6	6848.4	6179.3		L:126304 W 49 ST 345 126517 REACM51	345 1		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126266 DUN	96								
								Open 126266 DUNWODIE		345 126601 REACT72			-0.18456	0.25304	646.9	1215.1	
			28273	2245.6	6848.4	6179.3		L:126304 W 49 ST 345 126518 REACM52	345 2		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126266 DUN	96								
								Open 126266 DUNWODIE		345 126601 REACT72			-0.18456	0.25304	646.9	1215.1	
			28274	2245.6	6848.4	6179.3		L:126304 W 49 ST 345 126518 REACM52	345 2		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126601 REA	371								
								Open 126601 REACT72		345 126641 MOTT HAVEN			-0.18456	0.25304	646.9	1215.1	
			28275	2245.6	6848.4	6179.3		L:126304 W 49 ST 345 126517 REACM51	345 1		-776.6	-1434.0	-0.29276		-0.24606	-657.2	-1209.7
								C:126601 REA	371								
								Open 126601 REACT72		345 126641 MOTT HAVEN			-0.18456	0.25304	646.9	1215.1	
			28386	2319.8	6922.6	6253.6		L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1312.9	-1725.0	-0.17763		-0.16823	-1244.2	-1634.5
								C:SER:CMT344	594								
								Open 130750 COOPC345		345 146754 MDTN TAP			-0.08907	0.12737	875.2	1170.7	
								Open 125001 ROCK TAV		345 146754 MDTN TAP			-0.02164	-0.08992	-428.2	-636.8	
			28387	2322.4	6925.2	6256.2	*	L:126294 PLTVLLEY 345 137455 ATHENS	345 1		-1313.3	-1725.0	-0.17727		-0.16823	-1244.2	-1634.9
								C:130750 COO	196								
								Open 130750 COOPC345		345 147833 MARCY T1			0.09315	-0.09702	-741.6	-966.9	
			28466	2407.9	7010.7	6341.7		L: Interface 15 ItoNYC345			2852.1	5260.0	1.00000		1.00000	2612.7	5020.6
								C:GEN:SCS AS	554								
								Remove unit 1 from bus 1	2		6667 AST ENRG2-G118.0	250.0 MW dispatch					
								Remove unit 1 from bus 1	2		6668 AST ENRG2-G218.0	150.0 MW dispatch					
								Remove unit 1 from bus 1	2		6669 AST ENRG2-G318.0	150.0 MW dispatch					
			28490	2442.1	7044.9	6375.8		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-488.3	-1196.0	-0.28979		-0.24518	-368.6	-967.3
								C:126298 SPR	131								
								Open 126298 SPRBROOK		345 126517 REACM51			-0.18128	0.24606	660.5	1261.4	
			28491	2442.1	7044.9	6375.8		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-488.3	-1196.0	-0.28979		-0.24518	-368.6	-967.3
								C:126298 SPR	132								
								Open 126298 SPRBROOK		345 126518 REACM52			-0.18128	0.24606	660.5	1261.4	

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			28492	2442.1	7044.9	6375.8		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		185.6	320.0	0.05504		0.05477	161.5	295.3
								C:BUS:E13TH	631								
								Open 126275 E13ST 48	345 126277 FARRAGUT				-0.09104	-0.04929	14.2	-106.2	
								Open 126275 E13ST 48	345 147829 C POLETTI				-0.09370	0.04500	-270.9	-161.0	
								Open 126275 E13ST 48	345 126499 T11MPT				0.00000	0.00201	121.5	126.4	
								Open 126275 E13ST 48	345 126867 TX10 T				-0.09076	0.00000	0.4	0.4	
			28493	2444.1	7046.9	6377.9		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-487.7	-1196.0	-0.28979		-0.24518	-368.6	-967.8
								C:126304 W 4	365								
								Open 126304 W 49 ST	345 126517 REACM51				0.18128	-0.24606	-657.2	-1258.6	
			28494	2444.1	7046.9	6377.9		L:126295 RAINEY 345 126641 MOTT HAVEN	345 4		-487.7	-1196.0	-0.28979		-0.24518	-368.6	-967.8
								C:126304 W 4	366								
								Open 126304 W 49 ST	345 126518 REACM52				0.18128	-0.24606	-657.2	-1258.6	
			28509	2458.8	7061.6	6392.6		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		183.9	320.0	0.05533		0.05477	161.5	296.2
								C:BUS:E13TH	628								
								Open 126272 E13ST 45	345 126277 FARRAGUT				-0.09049	0.16021	-147.0	246.9	
								Open 126272 E13ST 45	345 126304 W 49 ST				-0.08979	-0.16770	-102.4	-514.8	
								Open 126272 E13ST 45	345 126495 T14MPT				0.00000	0.00347	115.4	123.9	
								Open 126272 E13ST 45	345 126871 TX15 T				-0.09028	0.00000	0.8	0.8	
			28510	2460.5	7063.3	6394.2		L:130750 COOPC345 345 147833 MARCY T1	345 1		-1009.8	-1345.0	-0.13623		-0.09702	-741.6	-980.3
								C:130750 COO	192								
								Open 130750 COOPC345	345 130753 FRASR345				0.26904	-0.14577	-997.0	-1355.7	
			28512	2461	7063.8	6394.7		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		183.8	320.0	0.05534		0.05477	161.5	296.3
								C:BUS:E13TH	629								
								Open 126273 E13ST 46	345 126277 FARRAGUT				-0.09043	0.15897	-145.0	246.2	
								Open 126273 E13ST 46	345 126304 W 49 ST				-0.08974	-0.16649	-103.3	-513.0	
								Open 126273 E13ST 46	345 126497 T13MPT				0.00000	0.00362	119.0	127.9	
								Open 126273 E13ST 46	345 126873 TX12 T				-0.09023	0.00000	0.9	0.9	
			30098	2526.8	7129.6	6460.5		L:146771 SHOEM138 138 146772 SHOEMTAP	138 1		-554.8	-707.0	-0.06023		-0.03745	-446.4	-541.0
								C:125001 ROC	9								
								Open 125001 ROCK TAV	345 146754 MDTN TAP				0.25331	-0.08992	-428.2	-655.4	
			30103	2527.1	7129.8	6460.8		L: Interface 15 ItoNYC345			2734.7	5260.0	0.99932		1.00000	2612.7	5139.7
								C:SIN:3601	682								
								Open 4996 LINDEN	230 126321 GOETHALS				0.34804	0.00000	334.6	334.6	
								Open 126282 FRESH KILLS	345 126283 GOTHLS N				0.00073	-0.02550	-25.6	-90.0	
								Open 126283 GOTHLS N	345 126286 GOWANUSN				0.01256	-0.05254	444.1	311.4	
			30127	2541	7143.8	6474.8		L: Interface 15 ItoNYC345			2686.3	5260.0	1.01285		1.00000	2612.7	5153.7
								C:125001 ROC	7								
								Open 125001 ROCK TAV	345 126297 RAMAPO				0.06579	0.19532	1119.3	1615.7	
			30128	2541	7143.8	6474.8		L: Interface 15 ItoNYC345			2686.3	5260.0	1.01285		1.00000	2612.7	5153.7
								C:SIN:4401	684								
								Open 125001 ROCK TAV	345 126297 RAMAPO				0.06579	0.19532	1119.3	1615.7	
			30138	2547.2	7150	6481		L: Interface 15 ItoNYC345			2712.8	5260.0	1.00000		1.00000	2612.7	5159.9
								C:GEN:NYPA_A	553								
								Remove unit 1 from bus 1	4								
								7788 NYPACCI/2GT218.0	160.0 MW dispatch								
								7789 NYPACCI/2STG18.0	180.0 MW dispatch								
								7790 NYPACCI/2GT118.0	160.0 MW dispatch								
			30142	2552.3	7155.1	6486		L: Interface 15 ItoNYC345			2745.5	5260.0	0.98519		1.00000	2612.7	5165.0
								C:GEN:RAVNW1	775								
								Open 126652 RAV 3	22.0 126865 RAV3 60M				0.00000	-0.05362	481.0	344.2	
								Open 126652 RAV 3	22.0 126866 RAV3 60L				-0.13808	0.10724	-962.0	-688.3	
			30145	2554.4	7157.2	6488.1		L:125001 ROCK TAV 345 130750 COOPC345	345 2		-1293.9	-1793.0	-0.19537		-0.11541	-744.5	-1039.3
								C:130750 COO	195								
								Open 130750 COOPC345	345 146754 MDTN TAP				-0.62777	0.12737	875.2	1200.6	
			30146	2554.9	7157.7	6488.6		L: Interface 15 ItoNYC345			2705.1	5260.0	1.00000		1.00000	2612.7	5167.5
								C:BUS:SHORE	622								
								Open 128835 SHORE RD	345 129293 SHORE RD				0.19463	0.00000	237.1	237.1	
								Open 128835 SHORE RD	345 129293 SHORE RD				0.19463	0.00000	236.3	236.3	
								Open 126266 DUNWODIE	345 128835 SHORE RD				0.24724	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE				0.24724	0.00000	0.0	0.0	
			30147	2554.9	7157.7	6488.7		L: Interface 15 ItoNYC345			2705.1	5260.0	1.00000		1.00000	2612.7	5167.6
								C:126266 DUN	362								
								Open 126266 DUNWODIE	345 128835 SHORE RD				0.19463	0.00000	474.7	474.7	
			30177	2573.3	7176.1	6507.1		L: Interface 15 ItoNYC345			2686.7	5260.0	1.00000		1.00000	2612.7	5186.0

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:GEN:SALEM1	568							
									36 SALEM-G1	22.0	1117.3 MW	dispatch					
			30185	2582.1	7184.9	6515.8	*	L: Interface 15 ItoNYC345			2677.9	5260.0	1.00000		1.00000	2612.7	5194.8
									C:126299 REA	133							
									Open 126299 REACBUS	345	147857 DVNPT NK		0.14136	0.00000	461.5	461.5	
			30201	2591.6	7194.4	6525.3		L:137451 LEEDS 3 345 137453 N.SCOT99	345	2	-1218.1	-1724.0	-0.19519		-0.14158	-863.0	-1229.9
									C:BUS:N.S._7	615							
									Open 137452 N.SCOT77	345	137453 N.SCOT99		0.60778	-0.01576	-243.2	-284.0	
									Open 137452 N.SCOT77	345	137516 N.SCOT1		0.40442	-0.02019	113.3	61.0	
									Open 137200 EDIC	345	137452 N.SCOT77		-0.33528	0.10856	822.9	1104.2	
									Open 137450 ALPS345	345	137452 N.SCOT77		-0.26699	-0.00198	-85.1	-90.3	
									Open 137451 LEEDS 3	345	137452 N.SCOT77		0.20565	0.00000	0.0	0.0	
			30299	2637.7	7240.5	6571.5		L:125002 ROSETON 345 125190 ROSE GN1	24.0	1	-437.8	-614.0	-0.06679				
									Base Case								
			33587	2733.7	7336.5	6667.4		L:125001 ROCK TAV 345 130750 COOPC345	345	2	-1264.6	-1793.0	-0.19328		-0.11541	-744.5	-1060.0
									C:SER:CMT348	594							
									Open 130750 COOPC345	345	146754 MDTN TAP		-0.55572	0.12737	875.2	1223.4	
									Open 125001 ROCK TAV	345	146754 MDTN TAP		0.07882	-0.08992	-428.2	-674.0	
			33643	2762.5	7365.3	6696.2		L:146758 CHESTER 138 146771 SHOEM138	138	1	-175.8	-262.0	-0.03119				
									Base Case								
			33657	2768	7370.8	6701.8		L:146758 CHESTER 138 146773 SGRLF138	138	1	204.5	317.0	0.04065		0.03119	140.4	226.7
									C:SIN:4301	683							
									Open 125002 ROSETON	345	126281 FISHKILL		0.04251	0.22267	1507.8	2124.1	
			33658	2768	7370.8	6701.8		L:146758 CHESTER 138 146773 SGRLF138	138	1	204.5	317.0	0.04065		0.03119	140.4	226.7
									C:125002 ROS	10							
									Open 125002 ROSETON	345	126281 FISHKILL		0.04251	0.22267	1507.8	2124.1	
			33718	2821.3	7424.1	6755		L:126295 RAINEY 345 126641 MOTT HAVEN	345	3	-454.9	-1196.0	-0.26269		-0.26269	-393.2	-1134.4
									C:GEN:SCS AS	554							
									6667 AST ENRG2-G118.0	250.0 MW	dispatch						
									6668 AST ENRG2-G218.0	150.0 MW	dispatch						
									6669 AST ENRG2-G318.0	150.0 MW	dispatch						
			35251	2866.9	7469.7	6800.7		L:126298 SPRBROOK 345 126518 REACM52	345	SR	693.3	1434.0	0.25835		0.24606	660.5	1365.9
									C:126266 DUN	92							
									Open 126266 DUNWODIE	345	126298 SPRBROOK		-0.09107	-0.13497	-360.4	-747.4	
			35252	2866.9	7469.7	6800.7		L:126298 SPRBROOK 345 126517 REACM51	345	SR	693.3	1434.0	0.25835		0.24606	660.5	1365.9
									C:126266 DUN	92							
									Open 126266 DUNWODIE	345	126298 SPRBROOK		-0.09107	-0.13497	-360.4	-747.4	
			35304	2879.8	7482.5	6813.5		L:126304 W 49 ST 345 126518 REACM52	345	2	-690.0	-1434.0	-0.25835		-0.24606	-657.2	-1365.8
									C:126266 DUN	92							
									Open 126266 DUNWODIE	345	126298 SPRBROOK		0.09107	-0.13497	-360.4	-749.1	
			35305	2879.8	7482.5	6813.5		L:126304 W 49 ST 345 126517 REACM51	345	1	-690.0	-1434.0	-0.25835		-0.24606	-657.2	-1365.8
									C:126266 DUN	92							
									Open 126266 DUNWODIE	345	126298 SPRBROOK		0.09107	-0.13497	-360.4	-749.1	
			35307	2880.3	7483.1	6814.1		L:126274 E13ST 47 345 126870 TX17 T	69.0	17	161.9	320.0	0.05490		0.05477	161.5	319.3
									C:126298 SPR	131							
									Open 126298 SPRBROOK	345	126517 REACM51		0.00052	0.24606	660.5	1369.2	
			35308	2880.3	7483.1	6814.1		L:126274 E13ST 47 345 126870 TX17 T	69.0	17	161.9	320.0	0.05490		0.05477	161.5	319.3
									C:126298 SPR	132							
									Open 126298 SPRBROOK	345	126518 REACM52		0.00052	0.24606	660.5	1369.2	
			35309	2880.4	7483.2	6814.1		L:126274 E13ST 47 345 126870 TX17 T	69.0	17	161.9	320.0	0.05490		0.05477	161.5	319.3
									C:126304 W 4	365							
									Open 126304 W 49 ST	345	126517 REACM51		-0.00052	-0.24606	-657.2	-1365.9	
			35310	2880.4	7483.2	6814.1		L:126274 E13ST 47 345 126870 TX17 T	69.0	17	161.9	320.0	0.05490		0.05477	161.5	319.3
									C:126304 W 4	366							
									Open 126304 W 49 ST	345	126518 REACM52		-0.00052	-0.24606	-657.2	-1365.9	
			NA	2881.5	7484.3	6815.2	R	L: Interface 49 C-PJMCentral			99.2	0.0	-0.03444		-0.03444	189.9	90.7
									C:GEN:9 MI F	562							
									6700 9M PT 2G	25.0	1198.7 MW	dispatch					
			35312	2881.5	7484.3	6815.2	*	L: Interface 49 C-PJMCentral			99.2	0.0	-0.03444		-0.03444	189.9	90.7
									C:GEN:9 MI F	562							
									6700 9M PT 2G	25.0	1198.7 MW	dispatch					
									C:126304 W 4	365							
									Open 126304 W 49 ST	345	126517 REACM51		-0.00052	-0.24606	-657.2	-1365.9	
			NA	2881.5	7484.3	6815.2	R	L: Interface 50 PJMCentral-C			-99.2	0.0	0.03444		0.03444	-189.9	-90.7
									C:GEN:9 MI F	562							



From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Neon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
				Remove unit 2 from bus 1			3		6700 9M PT 2G	25.0	1198.7 MW dispatch						
			35313	2881.5	7484.3	6815.2	*	L: Interface 50 PJMCentral-C			-99.2	0.0	0.03444		0.03444	-189.9	-90.7
									C:GEN:9 MI F	562							
				Remove unit 2 from bus 1			3		6700 9M PT 2G	25.0	1198.7 MW dispatch						
			35320	2891.7	7494.5	6825.5		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.6	320.0	0.05478		0.05477	161.5	319.9
									C:SIN:1201	668							
									Open 126263 BUCHANAN S	345	126291 MILLWOOD		0.00003	0.07539	786.5	1004.5	
									Open 126263 BUCHANAN S	345	126291 MILLWOOD		0.00003	0.07539	786.5	1004.5	
									Open 126263 BUCHANAN S	345	126290 LADENTWN		-0.00002	0.00000	39.8	39.8	
									Open 126263 BUCHANAN S	NA							
									Open 147798 IP#3 GEN	NA							
									Open 147798 IP#3 GEN	NA							
				Remove unit 1 from bus 1			4		7798 IP#3 GEN	22.0	1072.8 MW dispatch						
			35321	2891.7	7494.5	6825.5		L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.6	320.0	0.05478		0.05477	161.5	319.9
									C:SIN:1301	669							
									Open 126263 BUCHANAN S	345	126291 MILLWOOD		0.00003	0.07539	786.5	1004.5	
									Open 126263 BUCHANAN S	345	126291 MILLWOOD		0.00003	0.07539	786.5	1004.5	
									Open 126263 BUCHANAN S	345	126290 LADENTWN		-0.00002	0.00000	39.8	39.8	
									Open 126263 BUCHANAN S	NA							
									Open 147798 IP#3 GEN	NA							
									Open 147798 IP#3 GEN	NA							
				Remove unit 1 from bus 1			4		7798 IP#3 GEN	22.0	1072.8 MW dispatch						
			35322	2892.4	7495.2	6826.2	*	L:126274 E13ST 47 345 126870 TX17 T	69.0 17		161.6	320.0	0.05477		0.05477	161.5	319.9
									C: 91 JEFF	351							
									Open 91 JEFFERSN	500	126250 RAMAPO 5		0.00005	0.00000	1001.0	1001.0	
			37064	2899.2	7502	6832.9		L:126298 SPRBROOK 345 126518 REACM52	345 SR		720.6	1434.0	0.24606		0.24606	660.5	1373.9
									C:GEN:SCS AS	554							
									6667 AST ENRG2-G118.0	250.0	MW dispatch						
									6668 AST ENRG2-G218.0	150.0	MW dispatch						
									6669 AST ENRG2-G318.0	150.0	MW dispatch						
			37065	2899.2	7502	6832.9		L:126298 SPRBROOK 345 126517 REACM51	345 SR		720.6	1434.0	0.24606		0.24606	660.5	1373.9
									C:GEN:SCS AS	554							
									6667 AST ENRG2-G118.0	250.0	MW dispatch						
									6668 AST ENRG2-G218.0	150.0	MW dispatch						
									6669 AST ENRG2-G318.0	150.0	MW dispatch						
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
			37081	2902.9	7505.6	6836.6		L:137451 LEEDS 3 345 137452 N.SCOT77	345 1		-1188.8	-1724.0	-0.18437		-0.14253	-867.6	-1281.4
									C:137451 LEE	7							
									Open 137451 LEEDS 3	345	147831 GILB 345		0.34978	-0.11963	-918.2	-1265.5	
			37109	2912.6	7515.4	6846.4		L:126304 W 49 ST 345 126518 REACM52	345 2		-717.3	-1434.0	-0.24606		-0.24606	-657.2	-1373.9
									C:GEN:SCS AS	554							
									6667 AST ENRG2-G118.0	250.0	MW dispatch						
									6668 AST ENRG2-G218.0	150.0	MW dispatch						
									6669 AST ENRG2-G318.0	150.0	MW dispatch						
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
			37110	2912.6	7515.4	6846.4		L:126304 W 49 ST 345 126517 REACM51	345 1		-717.3	-1434.0	-0.24606		-0.24606	-657.2	-1373.9
									C:GEN:SCS AS	554							
									6667 AST ENRG2-G118.0	250.0	MW dispatch						
									6668 AST ENRG2-G218.0	150.0	MW dispatch						
									6669 AST ENRG2-G318.0	150.0	MW dispatch						
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
				Remove unit 1 from bus 1			2										
			37126	2938	7540.7	6871.7		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-424.7	-1196.0	-0.26253		-0.26269	-393.2	-1165.0
									C:SIN:3601	682							
									Open 4996 LINDEN	230	126321 GOETHALS		-0.08994	0.00000	334.6	334.6	
									Open 126282 FRESH KILLS	345	126283 GOTHLS N		-0.00015	-0.02550	-25.6	-100.5	
									Open 126283 GOTHLS N	345	126286 GOWANUSN		-0.00311	-0.05254	444.1	289.8	
			37128	2939.2	7542	6873		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-413.5	-1196.0	-0.26623		-0.26269	-393.2	-1165.4
									C:SIN:4401	684							
									Open 125001 ROCK TAV	345	126297 RAMAPO		-0.01809	0.19532	1119.3	1693.4	
			37129	2939.2	7542	6873		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-413.5	-1196.0	-0.26623		-0.26269	-393.2	-1165.4
									C:125001 ROC	7							
									Open 125001 ROCK TAV	345	126297 RAMAPO		-0.01809	0.19532	1119.3	1693.4	
			37132	2942.4	7545.2	6876.1		L:137451 LEEDS 3 345 137453 N.SCOT99	345 2		-1184.3	-1724.0	-0.18344		-0.14158	-863.0	-1279.6
									C:137451 LEE	7							
									Open 137451 LEEDS 3	345	147831 GILB 345		0.34988	-0.11963	-918.2	-1270.2	
			37142	2951.6	7554.4	6885.4		L:126295 RAINEY 345 126641 MOTT HAVEN	345 3		-420.6	-1196.0	-0.26269		-0.26269	-393.2	-1168.6

From	To	Transfer Level	N	FCITC	EXPORT	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
									C:GEN:NYPA_A	553							
					Remove unit 1 from bus 1		4		7788 NYPACC1/2GT218.0	160.0 MW dispatch							
					Remove unit 1 from bus 1		4		7789 NYPACC1/2STG18.0	180.0 MW dispatch							
					Remove unit 1 from bus 1		4		7790 NYPACC1/2GT118.0	160.0 MW dispatch							
			37143	2954.7	7557.5	6888.5	*	L:126295 RAINY 345 126641 MOTT HAVEN	345 3		-432.9	-1196.0	-0.25828		-0.26269	-393.2	-1169.4
									C:GEN:RAVNW	775							
									Open 126652 RAV 3	22.0 126865 RAV3 60M			0.00000	-0.05362	481.0	322.6	
									Open 126652 RAV 3	22.0 126866 RAV3 60L			0.04119	0.10724	-962.0	-645.2	

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 14:26 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\suml8tr2-gb-bal-rev30-abb-ph2-v2.sav  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 32151  
 First violation - -158390.5 MW.

Interface-1 Interface 7 UPNY-SENY OP Init.Flow= 5641.16 TDF= 1.0000

From	To	Transfer Level	N	FCITC	Interface-1	Flags	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ON_F_EXP	GHI_IMPORT	3000.0	1	-158390	-152749		L: Interface 21 PJM-WEST		650	5140.3	0.0	0.03245		0.04606	5119.7	-2176.3
							C:ETHS/LLGDL									
							Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.13790	-0.07294	116.1	11669.0
							Open 130807 GOUDY115	115 200680 LAUREL L 115 1					0.12173	-0.02918	37.4	4658.7
			2	-138918	-133276		L: Interface 21 PJM-WEST		5134.2	0.0	0.03696			0.04606	5119.7	-1279.3
							C:130763 HILSD230	230 200675 E.TWANDA 230 11	375							
							Open 130763 HILSD230	230 200675 E.TWANDA 230 1					0.12483	-0.07294	116.1	10248.7
			3	-130761	-125120		L: Interface 21 PJM-WEST		5130.8	0.0	0.03924			0.04606	5119.7	-903.6
							C:130763 HILSD230	230 130768 WATRC230 230 1	219							
							Open 130763 HILSD230	230 130768 WATRC230 230 1					-0.05805	0.11757	-190.6	-15564.5
			4	-128366	-122725		L: Interface 21 PJM-WEST		5137.5	0.0	0.04002			0.04606	5119.7	-793.2
							C:BUS:WATERCURE_2301		634							
							Open 130768 WATRC230	230 130772 SHRED230 230 1					-0.02068	0.04919	73.0	-6241.9
							Open 130757 WATRC345	345 130768 WATRC230 230 1					0.07347	-0.06838	264.1	9041.5
							Open 130763 HILSD230	230 130768 WATRC230 230 1					-0.18954	0.00000	0.5	0.5
			5	-125098	-119457		L: Interface 21 PJM-WEST		5050.1	0.0	0.04037			0.04606	5119.7	-642.7
							C:MULT041		657							
							Open 9 JUNIATA	500 21 SUNBURY 500 1					-0.13385	0.04173	526.9	-4693.2
							Open 21 SUNBURY	500 3084 SUNBURY 230 24					-0.00697	0.01567	-120.9	-2080.7
			6	-123924	-118283		L: Interface 21 PJM-WEST		5137.5	0.0	0.04146			0.04606	5119.7	-588.6
							C:130757 WATRC345	345 130768 WATRC230 230 1	213							
							Open 130757 WATRC345	345 130768 WATRC230 230 1					0.06737	-0.06838	264.1	8737.8
			7	-119045	-113404		L: Interface 21 PJM-WEST		5189.8	0.0	0.04359			0.04606	5119.7	-363.9
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345	345 200769 HOMER CY 345 1					-0.17843	0.01357	-377.8	-1993.6
							Open 135277 FALCONER	115 200579 WARREN 115 1					-0.07359	0.00063	-35.9	-111.3
			8	-118344	-112703		L: Interface 21 PJM-WEST		5182.9	0.0	0.04379			0.04606	5119.7	-331.6
							C:135398 SW345	345 200769 HOMER CY 345 11	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1					-0.16713	0.01357	-377.8	-1984.1
			9	-117157	-111516		L: Interface 21 PJM-WEST		5396.7	0.0	0.04606			0.04606	5119.7	-276.9
							C:GEN:SALEM1		568							
							Remove unit 1 from bus	36 SALEM-G1 22.0 1117.3 MW dispatch								
			10	-116665	-111024*		L: Interface 21 PJM-WEST		5374.0	0.0	0.04606			0.04606	5119.7	-254.3
							C:GEN:PEACHBTM1		569							
							Remove unit 1 from bus	34 PCHBTM 2 22.0 1059.5 MW dispatch								
			1751	-86297.9	-80656.8		L: Interface 20 PJM-CENT		3534.1	0.0	0.04095			0.09833	3274.5	-5211.2
							C:126260 BOWLINE1	345 146750 WHAV345 345 10	79							
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					-0.55144	0.10405	-470.6	-9450.2
			1760	-64455.7	-58814.5		L: Interface 20 PJM-CENT		3475.2	0.0	0.05392			0.09833	3274.5	-3063.4
							C:SIN:301		666							
							Open 126260 BOWLINE1	345 146841 BOW1 20.0 1	NA							
							Open 126260 BOWLINE1	345 146750 WHAV345 345 10					-0.42591	0.10405	-470.6	-7177.5
							Open 126290 LADENTWN	345 146750 WHAV345 345 1					-0.00103	0.09532	-170.9	-6314.9
			1761	-55260.3	-49619.1		L: Interface 20 PJM-CENT		3233.7	0.0	0.05852			0.09833	3274.5	-2159.2
							C:LKWANA-OXBW1		652							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 417 OXBOW 230 3070 LACKAWNA 230 1								
			1762	-53084.9	-47443.8		L: Interface 20 PJM-CENT			3327.1	0.0	0.06267	0.33015	-0.12059	-123.7	6540.1
							C:ETHS/NWES/LLGD1		649					0.09833	3274.5	-1945.3
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.28217	-0.07294	116.1	3988.1
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.25854	-0.03041	40.8	1655.2
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.24719	-0.02918	37.4	1586.2
			1763	-44574	-38932.8		L: Interface 20 PJM-CENT			3308.8	0.0	0.07423		0.09833	3274.5	-1108.5
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						0.09832	0.00115	-15.5	-66.9
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.24421	-0.07294	116.1	3367.3
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						0.01929	-0.00593	-52.6	211.7
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.20672	-0.03041	40.8	1396.3
			1764	-44564.6	-38923.4		L: Interface 20 PJM-CENT			3311.2	0.0	0.07430		0.09833	3274.5	-1107.5
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.24118	-0.07294	116.1	3366.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.21172	-0.03041	40.8	1396.1
			1765	-41701.2	-36060.1		L: Interface 20 PJM-CENT			3303.4	0.0	0.07922		0.09833	3274.5	-826.0
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.19413	-0.07294	116.1	3157.7
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.16981	-0.02918	37.4	1254.1
			1766	-40385.7	-34744.5		L: Interface 20 PJM-CENT			3971.1	0.0	0.09833		0.09833	3274.5	-696.6
							C:GEN:PEACHBTM1		569							
							Remove unit 1 from bus 34 PCHBTM 2 22.0 1059.5 MW dispatch									
			1767	-39865.5	-34224.3		L: Interface 20 PJM-CENT			3920.0	0.0	0.09833		0.09833	3274.5	-645.5
							C:GEN:SALEM1		568							
							Remove unit 1 from bus 36 SALEM-G1 22.0 1117.3 MW dispatch									
			1768	-38578.4	-32937.3	*	L: Interface 20 PJM-CENT			3793.4	0.0	0.09833		0.09833	3274.5	-518.9
							C:SIN:2501		678							
							Open 100508 SANDB115 115 100509 SB RCTOR 115 2						-0.00004	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch									
			3523	-7544.8	-1903.6		L: Interface 47 C-PJMWest			-482.4	0.0	-0.06394		-0.10816	-547.8	268.2
							C:130755 OAKDL345 345 130757 WATRC345 345 1		206							
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.25046	-0.17654	-261.1	1070.8
			3524	-7544.8	-1903.6		L: Interface 61 PJMC2C			482.4	0.0	0.06394		0.10816	547.8	-268.2
							C:130755 OAKDL345 345 130757 WATRC345 345 1		206							
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.25046	-0.17654	-261.1	1070.8
			3525	-7544.8	-1903.6		L: Interface 60 C2PJMC			-482.4	0.0	-0.06394		-0.10816	-547.8	268.2
							C:130755 OAKDL345 345 130757 WATRC345 345 1		206							
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.25046	-0.17654	-261.1	1070.8
			3526	-7544.8	-1903.6		L: Interface 48 PJMWest-C			482.4	0.0	0.06394		0.10816	547.8	-268.2
							C:130755 OAKDL345 345 130757 WATRC345 345 1		206							
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.25046	-0.17654	-261.1	1070.8
			3527	-6323.4	-682.2		L: Interface 61 PJMC2C			599.3	0.0	0.09477		0.10816	547.8	-136.1
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3528	-6323.4	-682.2		L: Interface 47 C-PJMWest			-599.3	0.0	-0.09477		-0.10816	-547.8	136.1
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1									
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2									
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3529	-6323.4	-682.2		L: Interface 60 C2PJMC			-599.3	0.0	-0.09477		-0.10816	-547.8	136.1
							C:SIN:1201		668							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.00650	-0.14077	785.6	1675.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.00650	-0.14077	785.6	1675.8
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.04989	0.23158	39.8	-1424.6
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
			3530	-6323.4	-682.2		L: Interface 48 PJMWest-C			599.3	0.0	0.09477		0.10816	547.8	-136.1
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3531	-6323.4	-682.2		L: Interface 47 C-PJMWest			-599.3	0.0	-0.09477		-0.10816	-547.8	136.1
							C:SIN:1201		668							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3532	-6323.4	-682.2		L: Interface 60 C2PJM			-599.3	0.0	-0.09477		-0.10816	-547.8	136.1
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						-0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3533	-6323.4	-682.2		L: Interface 61 PJMC2C			599.3	0.0	0.09477		0.10816	547.8	-136.1
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3534	-6323.4	-682.2		L: Interface 48 PJMWest-C			599.3	0.0	0.09477		0.10816	547.8	-136.1
							C:SIN:1301		669							
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2						0.00650	-0.14077	785.6	1675.8
							Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1						-0.04989	0.23158	39.8	-1424.6
							Open 126263 BUCHANAN S 345 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1			NA						
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2			NA						
							Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch									
			3535	-6122.5	-481.3		L: Interface 60 C2PJM			-488.6	0.0	-0.07980		-0.10816	-547.8	114.4
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.10467	-0.27093	-566.1	1092.7
			3536	-6122.5	-481.3		L: Interface 47 C-PJMWest			-488.6	0.0	-0.07980		-0.10816	-547.8	114.4
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.10467	-0.27093	-566.1	1092.7
			3537	-6122.5	-481.3		L: Interface 61 PJMC2C			488.6	0.0	0.07980		0.10816	547.8	-114.4
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.10467	-0.27093	-566.1	1092.7
			3538	-6122.5	-481.3		L: Interface 48 PJMWest-C			488.6	0.0	0.07980		0.10816	547.8	-114.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:130753 FRASR345 345 130755 OAKDL345 345 1	200							
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.10467	-0.27093	-566.1	1092.7
			3539	-5953.1	-312		L: Interface 61 PJMC2C			589.2	0.0	0.09897		0.10816	547.8	-96.0
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1215.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						-0.03968	0.23158	-1041.8	-2420.4
			3540	-5953.1	-312		L: Interface 60 C2PJMC			-589.2	0.0	-0.09897		-0.10816	-547.8	96.0
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1215.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						0.03968	0.23158	-1041.8	-2420.4
			3541	-5953.1	-312		L: Interface 48 PJMWest-C			589.2	0.0	0.09897		0.10816	547.8	-96.0
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1215.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						-0.03968	0.23158	-1041.8	-2420.4
			3542	-5953.1	-312		L: Interface 47 C-PJMWest			-589.2	0.0	-0.09897		-0.10816	-547.8	96.0
							C:GEN:IND PT 3-New1		774							
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	-0.11640	522.5	1215.4
							Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						0.03968	0.23158	-1041.8	-2420.4
			3543	-5896.5	-255.4		L: Interface 60 C2PJMC			-586.8	0.0	-0.09952		-0.10816	-547.8	89.9
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1174.8
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.03827	0.22576	-1018.5	-2349.7
			3544	-5896.5	-255.4		L: Interface 48 PJMWest-C			586.8	0.0	0.09952		0.10816	547.8	-89.9
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1174.8
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2349.7
			3545	-5896.5	-255.4		L: Interface 61 PJMC2C			586.8	0.0	0.09952		0.10816	547.8	-89.9
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1174.8
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.03827	0.22576	-1018.5	-2349.7
			3546	-5896.5	-255.4		L: Interface 47 C-PJMWest			-586.8	0.0	-0.09952		-0.10816	-547.8	89.9
							C:GEN:IND PT 2-New1		773							
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	0.11288	-509.2	-1174.8
							Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						0.03827	0.22576	-1018.5	-2349.7
			3547	-5882.3	-241.1		L: Interface 47 C-PJMWest			-621.0	0.0	-0.10557		-0.10816	-547.8	88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.18770	0.01357	-377.8	-457.7
							Open 135277 FALCONER 115 200579 WARREN 115 1						0.06273	0.00063	-35.9	-39.6
			3548	-5882.3	-241.1		L: Interface 60 C2PJMC			-621.0	0.0	-0.10557		-0.10816	-547.8	88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.18770	0.01357	-377.8	-457.7
							Open 135277 FALCONER 115 200579 WARREN 115 1						0.06273	0.00063	-35.9	-39.6
			3549	-5882.3	-241.1		L: Interface 61 PJMC2C			621.0	0.0	0.10557		0.10816	547.8	-88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.18770	0.01357	-377.8	-457.7
							Open 135277 FALCONER 115 200579 WARREN 115 1						-0.06273	0.00063	-35.9	-39.6
			3550	-5882.3	-241.1		L: Interface 48 PJMWest-C			621.0	0.0	0.10557		0.10816	547.8	-88.4
							C:SER:HC-SR_37&W-F_1711		601							
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.18770	0.01357	-377.8	-457.7
							Open 135277 FALCONER 115 200579 WARREN 115 1						-0.06273	0.00063	-35.9	-39.6
			3551	-5843.2	-202		L: Interface 60 C2PJMC			-634.0	0.0	-0.10851		-0.10816	-547.8	84.2
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 765 1		NA							
							Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA							
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00757	624.3	580.0
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00658	543.3	504.8
							Open 156 MCV765SW 0.0 147827 MARCY765 765 1		NA							
							Open 147838 MASS230B 230 147839 MOSES E 230 1		NA				0.00000	-0.00708	10.7	52.1
							Open 147828 MASS 765 765 147838 MASS230B 230 1		NA							
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1		NA							
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			3552	-5843.2	-202		L: Interface 61 PJMC2C			634.0	0.0	0.10851		0.10816	547.8	-84.2
							C:HQ-NY-765-New1			777						
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00757	624.3	580.0
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00658	543.3	504.8
							Open 156 MCV765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00708	10.7	52.1
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3553	-5843.2	-202		L: Interface 48 PJMWest-C			634.0	0.0	0.10851		0.10816	547.8	-84.2
							C:HQ-NY-765-New1			777						
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						0.02482	0.00757	624.3	580.0
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						0.02482	0.00658	543.3	504.8
							Open 156 MCV765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00708	10.7	52.1
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						-0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3554	-5843.2	-202		L: Interface 47 C-PJMWest			-634.0	0.0	-0.10851		-0.10816	-547.8	84.2
							C:HQ-NY-765-New1			777						
							Open 147827 MARCY765 765 147828 MASS 765 765 1			NA						
							Open 147828 MASS 765 765 180819 CHA-NY 765 1			NA						
							Open 147827 MARCY765 765 147833 MARCY T1 345 1						-0.02482	0.00757	624.3	580.0
							Open 147827 MARCY765 765 147833 MARCY T1 345 2						-0.02482	0.00658	543.3	504.8
							Open 156 MCV765SW 0.0 147827 MARCY765 765 1			NA						
							Open 147838 MASS230B 230 147839 MOSES E 230 1						0.00000	-0.00708	10.7	52.1
							Open 147828 MASS 765 765 147838 MASS230B 230 1			NA						
							Open 147837 MASS230A 230 147839 MOSES E 230 1						0.05509	0.00000	18.8	18.8
							Open 147828 MASS 765 765 147837 MASS230A 230 1			NA						
							Open 158 MS765SW2 0.0 147828 MASS 765 765 1			NA						
							Open 157 MS765SW1 0.0 147828 MASS 765 765 1			NA						
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			3555	-5817.1	-175.9		L: Interface 60 C2PJMC			-615.1	0.0	-0.10574		-0.10816	-547.8	81.3
							C:135398 SW345 345 200769 HOMER CY 345 11			380						
							Open 135398 SW345 345 200769 HOMER CY 345 1						0.17807	0.01357	-377.8	-456.8
			3556	-5817.1	-175.9		L: Interface 61 PJMC2C			615.1	0.0	0.10574		0.10816	547.8	-81.3
							C:135398 SW345 345 200769 HOMER CY 345 11			380						
							Open 135398 SW345 345 200769 HOMER CY 345 1						-0.17807	0.01357	-377.8	-456.8

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			3557	-5817.1	-175.9		L: Interface 47 C-PJMWest			-615.1	0.0	-0.10574		-0.10816	-547.8	81.3
							C:135398 SW345	345 200769 HOMER CY 345 11	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1					0.17807	0.01357	-377.8	-456.8
			3558	-5817.1	-175.9		L: Interface 48 PJMWest-C			615.1	0.0	0.10574		0.10816	547.8	-81.3
							C:135398 SW345	345 200769 HOMER CY 345 11	380							
							Open 135398 SW345	345 200769 HOMER CY 345 1					-0.17807	0.01357	-377.8	-456.8
			3559	-5809.8	-168.7	*	L: Interface 60 C2PJM			-628.4	0.0	-0.10816		-0.10816	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3560	-5809.8	-168.7	*	L: Interface 47 C-PJMWest			-628.4	0.0	-0.10816		-0.10816	-547.8	80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3561	-5809.8	-168.7	*	L: Interface 61 PJM2C			628.4	0.0	0.10816		0.10816	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3562	-5809.8	-168.7	*	L: Interface 48 PJMWest-C			628.4	0.0	0.10816		0.10816	547.8	-80.5
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G	25.0 1198.7 MW dispatch								
			3599	-5531.1	110		L: Interface 56 NYE-PJMENoRE			-1498.1	-1287.0	-0.03817		0.00000	-1299.4	-1299.4
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.35376	-0.10816	-547.8	50.4
							Open 135277 FALCONER	115 200579 WARREN 115 1					0.13836	0.00063	-35.9	-39.4
			3600	-5531.1	110		L: Interface 55 PJME-NYEnoRE			1498.1	1287.0	0.03817		0.00000	1299.4	1299.4
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.35376	-0.10816	-547.8	50.4
							Open 135277 FALCONER	115 200579 WARREN 115 1					-0.13836	0.00063	-35.9	-39.4
			3629	-5390.2	251		L: Interface 56 NYE-PJMENoRE			-1492.4	-1287.0	-0.03810		0.00000	-1299.4	-1299.4
							C:130757 WATRC345	345 200769 HOMER CY 345 11	374							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					0.35224	-0.10816	-547.8	35.2
			3630	-5390.2	251		L: Interface 55 PJME-NYEnoRE			1492.4	1287.0	0.03810		0.00000	1299.4	1299.4
							C:130757 WATRC345	345 200769 HOMER CY 345 11	374							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.35224	-0.10816	-547.8	35.2
			4771	-5067.7	573.5		L: Interface 52 PJMEast-G			239.7	0.0	0.04730		0.00000	0.3	0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					0.21456	0.22045	1116.0	-1.2
			4772	-5067.7	573.5		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04730		0.00000	-0.3	-0.3
							C:125001 ROCK TAV	345 126297 RAMAPO 345 1	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					-0.21456	0.22045	1116.0	-1.2
			4773	-5067.7	573.5		L: Interface 51 G-PJMEast			-239.7	0.0	-0.04730		0.00000	-0.3	-0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					-0.21456	0.22045	1116.0	-1.2
			4774	-5067.7	573.5		L: Interface 52 PJMEast-G			239.7	0.0	0.04730		0.00000	0.3	0.3
							C:125001 ROCK TAV	345 126297 RAMAPO 345 1	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO 345 1					0.21456	0.22045	1116.0	-1.2
			10527	-4883.7	757.5		L: Interface 55 PJME-NYEnoRE			1475.1	1287.0	0.03852		0.00000	1299.4	1299.4
							C:130750 COOPC345	345 130753 FRASR345 345 1	192							
							Open 130750 COOPC345	345 130753 FRASR345 345 1					-0.17684	-0.21784	-993.8	70.0
			10528	-4883.7	757.5		L: Interface 56 NYE-PJMENoRE			-1475.1	-1287.0	-0.03852		0.00000	-1299.4	-1299.4
							C:130750 COOPC345	345 130753 FRASR345 345 1	192							
							Open 130750 COOPC345	345 130753 FRASR345 345 1					0.17684	-0.21784	-993.8	70.0
			10553	-4569.7	1071.5		L: Interface 52 PJMEast-G			154.0	0.0	0.03371		0.00000	0.3	0.3
							C:130750 COOPC345	345 130753 FRASR345 345 1	192							
							Open 130750 COOPC345	345 130753 FRASR345 345 1					-0.15474	-0.21784	-993.8	1.6
			10554	-4569.7	1071.5		L: Interface 51 G-PJMEast			-154.0	0.0	-0.03371		0.00000	-0.3	-0.3
							C:130750 COOPC345	345 130753 FRASR345 345 1	192							
							Open 130750 COOPC345	345 130753 FRASR345 345 1					0.15474	-0.21784	-993.8	1.6
			10563	-4416	1225.2		L: Interface 55 PJME-NYEnoRE			1487.8	1287.0	0.04548		0.00000	1299.4	1299.4
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345	345 200769 HOMER CY 345 1					-0.36005	-0.10816	-547.8	-70.2
							Open 130836 N.WAV115	115 200676 E.SAYRE 115 1					-0.21507	-0.03041	40.8	175.1
			10564	-4416	1225.2		L: Interface 56 NYE-PJMENoRE			-1487.8	-1287.0	-0.04548		0.00000	-1299.4	-1299.4
							C:SER:HCWC/NWES1		608							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.36005	-0.10816	-547.8	-70.2
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.21507	-0.03041	40.8	175.1
			10577	-4119.9	1521.3		L: Interface 52 PUMEast-G			124.9	0.0	0.03031		0.00000	0.3	0.3
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.23852	-0.10816	-547.8	-102.2
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.14830	-0.03041	40.8	166.1
			10578	-4119.9	1521.3		L: Interface 51 G-PUMEast			-124.9	0.0	-0.03031		0.00000	-0.3	-0.3
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.23852	-0.10816	-547.8	-102.2
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.14830	-0.03041	40.8	166.1
			10591	-3900.9	1740.3		L: Interface 62 C2PJMW			-513.2	0.0	-0.13156		-0.24069	-353.6	585.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.80842	-0.07294	116.1	400.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.83288	-0.03041	40.8	159.5
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						-0.85100	-0.02918	37.4	151.2
			10592	-3900.9	1740.3		L: Interface 63 PJMW2C			513.2	0.0	0.13156		0.24069	353.6	-585.3
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.80842	-0.07294	116.1	400.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.83288	-0.03041	40.8	159.5
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.85100	-0.02918	37.4	151.2
			10597	-3599.4	2041.8		L: Interface 26 ONTARIO-MICH			758.6	0.0	0.21077		0.22773	733.8	-85.9
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.12796	-0.07294	116.1	378.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.13032	-0.03041	40.8	150.3
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.12541	-0.02918	37.4	142.4
			10598	-3464.2	2177		L: Interface 26 ONTARIO-MICH			750.6	0.0	0.21667		0.22773	733.8	-55.1
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10716	-0.07294	116.1	368.7
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10657	-0.03041	40.8	146.2
			10599	-3463.7	2177.4		L: Interface 26 ONTARIO-MICH			750.4	0.0	0.21666		0.22773	733.8	-55.0
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						0.00016	0.00115	-15.5	-19.5
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.10740	-0.07294	116.1	368.7
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						0.00252	-0.00593	-52.6	-32.1
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.10591	-0.03041	40.8	146.2
			10600	-3408	2233.2		L: Interface 26 ONTARIO-MICH			746.7	0.0	0.21911		0.22773	733.8	-42.3
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.08358	-0.07294	116.1	364.6
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.08640	-0.02918	37.4	136.8
			10601	-3402.1	2239.1		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.22349		0.22773	733.8	-41.0
							C:W44LC1		643							
							Open 160062 LONGWOOD 220 160074 COWALJ44 220 1						-0.16058	0.02161	189.0	115.5
							Open 160074 COWALJ44 220 160134 BUCHJW44 220 1						0.16305	-0.00467	334.6	350.4
							Open 160054 BUCHANAN 220 160134 BUCHJW44 220 1						-0.00035	0.00467	-256.3	-272.2
							Open 160055 CHATHAM 220 160074 COWALJ44 220 1						0.71978	0.00000	3.1	3.1
			10602	-3401.9	2239.3		L: Interface 26 ONTARIO-MICH			760.3	0.0	0.22350		0.22773	733.8	-40.9
							C:W45LC1		644							
							Open 160062 LONGWOOD 220 160075 COWALJ45 220 1						-0.16052	0.02159	189.0	115.6
							Open 160075 COWALJ45 220 160135 BUCHJW45 220 1						0.16299	-0.00466	334.4	350.3
							Open 160054 BUCHANAN 220 160135 BUCHJW45 220 1						-0.00035	0.00466	-262.6	-278.5
							Open 160055 CHATHAM 220 160075 COWALJ45 220 1						0.71974	0.00000	3.1	3.1
			10603	-3386	2255.1		L: Interface 26 ONTARIO-MICH			770.6	0.0	0.22759		0.22773	733.8	-37.3
							C:131128 LAPEER 345 136153 LAFAYTTE 345 1		392							
							Open 131128 LAPEER 345 136153 LAFAYTTE 345 1						-0.05454	0.00253	-675.2	-683.8
			10604	-3370.5	2270.6		L: Interface 26 ONTARIO-MICH			719.0	0.0	0.21332		0.22773	733.8	-33.8
							C:LKWANA-OXBW1		652							
							Open 417 OXBOW 230 3070 LACKAWNA 230 1						0.11942	-0.12059	-123.7	282.8
			10605	-3367.2	2273.9		L: Interface 26 ONTARIO-MICH			770.0	0.0	0.22868		0.22773	733.8	-33.0
							C:130755 OAKDL345 345 131128 LAPEER 345 1		209							
							Open 130755 OAKDL345 345 131128 LAPEER 345 1						-0.06047	-0.01573	-599.0	-546.0
			10606	-3347.4	2293.8	*	L: Interface 26 ONTARIO-MICH			746.8	0.0	0.22310		0.22773	733.8	-28.5
							C:KEY-SHELOCTA/BLAIRSVL-SOCIAL1		651							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			12374	-2172.9	3468.3		L: Interface 62 C2PJMW										
							C:HQ-NY-765-New1		777	-524.2	0.0	-0.24127		-0.24069	-353.6	169.4	
							Open 147827 MARCY765	765 147828 MASS 765	765 1								
							Open 147828 MASS 765	765 180819 CHA-NY	765 1								
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				-0.04110	0.00757	624.3	607.8	
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				-0.04110	0.00658	543.3	529.0	
							Open 156 MCV765SW	0.0 147827 MARCY765	765 1								
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00708	10.7	26.1	
							Open 147828 MASS 765	765 147838 MASS230B	230 1								
							Open 147837 MASS230A	230 147839 MOSES E	230 1				0.11489	0.00000	18.8	18.8	
							Open 147828 MASS 765	765 147837 MASS230A	230 1								
							Open 158 MS765SW2	0.0 147828 MASS 765	765 1								
							Open 157 MS765SW1	0.0 147828 MASS 765	765 1								
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch									
			12375	-2172.9	3468.3		L: Interface 63 PJMW2C										
							C:HQ-NY-765-New1		777	524.2	0.0	0.24127		0.24069	353.6	-169.4	
							Open 147827 MARCY765	765 147828 MASS 765	765 1								
							Open 147828 MASS 765	765 180819 CHA-NY	765 1								
							Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.04110	0.00757	624.3	607.8	
							Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.04110	0.00658	543.3	529.0	
							Open 156 MCV765SW	0.0 147827 MARCY765	765 1								
							Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.00708	10.7	26.1	
							Open 147828 MASS 765	765 147838 MASS230B	230 1								
							Open 147837 MASS230A	230 147839 MOSES E	230 1				-0.11489	0.00000	18.8	18.8	
							Open 147828 MASS 765	765 147837 MASS230A	230 1								
							Open 158 MS765SW2	0.0 147828 MASS 765	765 1								
							Open 157 MS765SW1	0.0 147828 MASS 765	765 1								
							Decrease bus 180001 BEA-DLX	13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3	120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL	13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4	120 load to357.0 MW dispatch									
			12376	-2094.5	3546.7		L: Interface 52 PJMEast-G										
							C:130753 FRASR345	345 130755 OAKDL345	345 1	200	105.6	0.0	0.05044		0.00000	0.3	0.3
							Open 130753 FRASR345	345 130755 OAKDL345	345 1					-0.18617	-0.27093	-566.1	1.4
			12377	-2094.5	3546.7		L: Interface 51 G-PJMEast										
							C:130753 FRASR345	345 130755 OAKDL345	345 1	200	-105.6	0.0	-0.05044		0.00000	-0.3	-0.3
							Open 130753 FRASR345	345 130755 OAKDL345	345 1					0.18617	-0.27093	-566.1	1.4
			12378	-1965	3676.2		L: Interface 63 PJMW2C										
							C:130763 HILSD230	230 200675 E.TWANDA	230 11	375	407.0	0.0	0.20712		0.24069	353.6	-119.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1					0.46019	-0.07294	116.1	259.4
			12379	-1965	3676.2		L: Interface 62 C2PJMW										
							C:130763 HILSD230	230 200675 E.TWANDA	230 11	375	-407.0	0.0	-0.20712		-0.24069	-353.6	119.4
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1					-0.46019	-0.07294	116.1	259.4
			12380	-1963.8	3677.4		L: Interface 63 PJMW2C										
							C:131128 LAPEER	345 136153 LAFAYTTE	345 1	392	471.8	0.0	0.24024		0.24069	353.6	-119.1
							Open 131128 LAPEER	345 136153 LAFAYTTE	345 1					-0.17507	0.00253	-675.2	-680.2
			12381	-1963.8	3677.4		L: Interface 62 C2PJMW										
							C:131128 LAPEER	345 136153 LAFAYTTE	345 1	392	-471.8	0.0	-0.24024		-0.24069	-353.6	119.1
							Open 131128 LAPEER	345 136153 LAFAYTTE	345 1					0.17507	0.00253	-675.2	-680.2
			12384	-1946.7	3694.5		L: Interface 62 C2PJMW										
							C:SIN:1301			669	-430.4	0.0	-0.22109		-0.24069	-353.6	115.0
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1					-0.02168	-0.14077	785.6	1059.6
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2					-0.02168	-0.14077	785.6	1059.6
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1					0.05824	0.23158	39.8	-411.0
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1								
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1								
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2								
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch									
			12385	-1946.7	3694.5		L: Interface 63 PJMW2C										
							C:130753 FRASR345	345 130755 OAKDL345	345 1	200	430.4	0.0	0.22109		0.24069	353.6	-115.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SIN:1201	668							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.05824	0.23158	39.8	-411.0
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
	12386			-1946.7	3694.5	*	L: Interface 62 C2PUMW			-430.4	0.0	-0.22109		-0.24069	-353.6	115.0
								C:SIN:1201	668							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					-0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					-0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					0.05824	0.23158	39.8	-411.0
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
	12387			-1946.7	3694.5	*	L: Interface 63 PUMW2C			430.4	0.0	0.22109		0.24069	353.6	-115.0
								C:SIN:1301	669							
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1					0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2					0.02168	-0.14077	785.6	1059.6
								Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1					-0.05824	0.23158	39.8	-411.0
								Open 126263 BUCHANAN S 345 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1		NA						
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2		NA						
								Remove unit 1 from bus 147798 IP#3 GEN 22.0 1072.8 MW dispatch								
	12388			-1945.8	3695.3		L: Interface 55 PJME-NYEnoRE			1353.2	1287.0	0.03404		0.00000	1299.4	1299.4
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.12877	0.26434	418.2	-96.2
	12389			-1945.8	3695.3		L: Interface 56 NYE-PJMEEnoRE			-1353.2	-1287.0	-0.03404		0.00000	-1299.4	-1299.4
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.12877	0.26434	418.2	-96.2
	12420			-1748.4	3892.8		L: Interface 56 NYE-PJMEEnoRE			-1367.4	-1287.0	-0.04599		0.00000	-1299.4	-1299.4
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.26051	-0.17654	-261.1	47.5
	12421			-1748.4	3892.8		L: Interface 55 PJME-NYEnoRE			1367.4	1287.0	0.04599		0.00000	1299.4	1299.4
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.26051	-0.17654	-261.1	47.5
	12693			-1487.2	4154		L: Interface 52 PJMEast-G			46.4	0.0	0.03119		0.00000	0.3	0.3
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.17666	-0.17654	-261.1	1.4
	12694			-1487.2	4154		L: Interface 51 G-PJMEast			-46.4	0.0	-0.03119		0.00000	-0.3	-0.3
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.17666	-0.17654	-261.1	1.4
	15903			-1213.5	4427.7		L: Interface 56 NYE-PJMEEnoRE			-1366.9	-1287.0	-0.06585		0.00000	-1299.4	-1299.4
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					0.54606	-0.12059	-123.7	22.7
	15904			-1213.5	4427.7		L: Interface 55 PJME-NYEnoRE			1366.9	1287.0	0.06585		0.00000	1299.4	1299.4
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					-0.54606	-0.12059	-123.7	22.7
	15907			-1030.9	4610.3		L: Interface 52 PJMEast-G			47.3	0.0	0.04589		0.00000	0.3	0.3
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					-0.38055	-0.12059	-123.7	0.7
	15908			-1030.9	4610.3		L: Interface 51 G-PJMEast			-47.3	0.0	-0.04589		0.00000	-0.3	-0.3
								C:LKWANA-OXBW1	652							
								Open 417 OXBOW 230 3070 LACKAWNA 230 1					0.38055	-0.12059	-123.7	0.7
	15909			-403.4	5237.8		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2			-1829.3	-1725.0	-0.25853		-0.18200	-1281.5	-1208.1
								C:126294 PLTVLLEY 345 137455 ATHENS 345 1	121							
								Open 126294 PLTVLLEY 345 137455 ATHENS 345 1					0.44120	-0.17345	-1241.5	-1171.5
	15910			-263.5	5377.6		L:126294 PLTVLLEY 345 137455 ATHENS 345 1			-1791.3	-1725.0	-0.25153		-0.17345	-1241.5	-1195.8
								C:126294 PLTVLLEY 345 137451 LEEDS 3 345 2	120							
								Open 126294 PLTVLLEY 345 137451 LEEDS 3 345 2					0.42902	-0.18200	-1281.5	-1233.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			15911	1.4	5642.5		L:146758	CHESTER 138 146771 SHOEM138 138 1		-316.9	-317.0	-0.06170		-0.03374	-175.4	-175.4
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1	7							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.12684	0.22045	1116.0	1116.3
			15912	1.4	5642.5		L:146758	CHESTER 138 146771 SHOEM138 138 1		-316.9	-317.0	-0.06170		-0.03374	-175.4	-175.4
								C:SIN:4401	684							
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					-0.12684	0.22045	1116.0	1116.3
		NA		96.1	5737.3	R	L:125021	DC CBLTP 115 125041 N.CHELSE 115 1		319.8	316.0	-0.03942		-0.02075	168.6	166.6
								C:125015 AC CBLTP 115 125041 N.CHELSE 115 1	16							
								Open 125015 AC CBLTP 115 125041 N.CHELSE 115 1					0.93208	-0.02002	162.2	160.3
		NA		103.8	5745	R	L:125021	DC CBLTP 115 125041 N.CHELSE 115 1		320.1	316.0	-0.03942		-0.02075	168.6	166.4
								C:125015 AC CBLTP 115 125020 DANSKAMA 115 1	15							
								Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1					-0.93208	0.02002	-162.5	-160.5
			15913	271.7	5912.9		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1281.5	-1331.0	-0.18200				
								Base Case								
		NA		386.6	6027.8	R	L: Interface	49 C-PJMCentral		61.2	0.0	-0.15826		-0.13253	194.3	143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.23835	-0.10816	-547.8	-589.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.06948	0.00063	-35.9	-35.6
			15914	386.6	6027.8		L: Interface	49 C-PJMCentral		61.2	0.0	-0.15826		-0.13253	194.3	143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.23835	-0.10816	-547.8	-589.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.06948	0.00063	-35.9	-35.6
			15915	386.6	6027.8		L: Interface	50 PJMCentral-C		-61.2	0.0	0.15826		0.13253	-194.3	-143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.23835	-0.10816	-547.8	-589.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.06948	0.00063	-35.9	-35.6
		NA		386.6	6027.8	R	L: Interface	50 PJMCentral-C		-61.2	0.0	0.15826		0.13253	-194.3	-143.0
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.23835	-0.10816	-547.8	-589.6
								Open 135277 FALCONER 115 200579 WARREN 115 1					-0.06948	0.00063	-35.9	-35.6
		NA		389.1	6030.3	R	L: Interface	49 C-PJMCentral		57.1	0.0	-0.14677		-0.13253	194.3	142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.22548	-0.10816	-547.8	-589.9
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.33373	-0.03041	40.8	29.0
		NA		389.1	6030.3	R	L: Interface	50 PJMCentral-C		-57.1	0.0	0.14677		0.13253	-194.3	-142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.22548	-0.10816	-547.8	-589.9
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.33373	-0.03041	40.8	29.0
			15920	389.1	6030.3		L: Interface	50 PJMCentral-C		-57.1	0.0	0.14677		0.13253	-194.3	-142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.22548	-0.10816	-547.8	-589.9
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.33373	-0.03041	40.8	29.0
		NA		389.1	6030.3	R	L: Interface	49 C-PJMCentral		57.1	0.0	-0.14677		-0.13253	194.3	142.7
								C:SER:HCWC/NWES1	608							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.22548	-0.10816	-547.8	-589.9
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.33373	-0.03041	40.8	29.0
			15922	391	6032.1		L: Interface	14 Leeds-PV		2523.0	2662.0	0.35546				
								Base Case								
			15925	405.1	6046.3		L: Interface	50 PJMCentral-C		-64.1	0.0	0.15822		0.13253	-194.3	-140.6
								C:130757 WATRC345 345 200769 HOMER CY 345 11	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.23759	-0.10816	-547.8	-591.6
			15926	405.1	6046.3		L: Interface	49 C-PJMCentral		64.1	0.0	-0.15822		-0.13253	194.3	140.6
								C:130757 WATRC345 345 200769 HOMER CY 345 11	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.23759	-0.10816	-547.8	-591.6
		NA		405.1	6046.3	R	L: Interface	49 C-PJMCentral		64.1	0.0	-0.15822		-0.13253	194.3	140.6
								C:130757 WATRC345 345 200769 HOMER CY 345 11	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.23759	-0.10816	-547.8	-591.6
		NA		405.1	6046.3	R	L: Interface	50 PJMCentral-C		-64.1	0.0	0.15822		0.13253	-194.3	-140.6
								C:130757 WATRC345 345 200769 HOMER CY 345 11	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.23759	-0.10816	-547.8	-591.6
			15927	475.6	6116.8		L: Interface	49 C-PJMCentral		63.8	0.0	-0.13407		-0.13253	194.3	131.2
								C:BUS:WATERCURE 3451	633							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.14481	-0.10816	-547.8	-599.3
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.20651	-0.06838	264.1	231.5
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.14879	0.00000	22.7	22.7
		NA		475.6	6116.8	R	L: Interface 49 C-PJMCentral		63.8		0.0	-0.13407		-0.13253	194.3	131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.14481	-0.10816	-547.8	-599.3
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.20651	-0.06838	264.1	231.5
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.14879	0.00000	22.7	22.7
		NA		475.6	6116.8	R	L: Interface 50 PJMCentral-C		-63.8		0.0	0.13407		0.13253	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.14481	-0.10816	-547.8	-599.3
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.20651	-0.06838	264.1	231.5
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.14879	0.00000	22.7	22.7
			15928	475.6	6116.8		L: Interface 50 PJMCentral-C		-63.8		0.0	0.13407		0.13253	-194.3	-131.2
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.14481	-0.10816	-547.8	-599.3
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.20651	-0.06838	264.1	231.5
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						-0.14879	0.00000	22.7	22.7
							L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2									
			15931	516.1	6157.2		Base Case									
							L:146758 CHESTER 138 146773 SGRFL138 138 1		281.4	317.0	0.06170			0.03374	139.9	159.3
							C:125001 ROCK TAV 345 126297 RAMAPO 345 1		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.12684	0.22045	1116.0	1243.0
			15933	576.2	6217.4		L:146758 CHESTER 138 146773 SGRFL138 138 1		281.4	317.0	0.06170			0.03374	139.9	159.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						0.12684	0.22045	1116.0	1243.0
			15934	631	6272.2		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2		-1578.2	-1725.0	-0.23263			-0.18200	-1281.5	-1396.4
							C:125000 HURLEY 3 345 137451 LEEDS 3 345 1		3				0.32994	-0.15344	-899.1	-996.0
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						0.35546	2523.0	2795.3	
			15935	766	6407.2		L: Interface 14 Leeds-PV		3102.0	3450.0	0.45426					
							C:125000 HURLEY 3 345 137451 LEEDS 3 345 1		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						-0.64393	-0.15344	-899.1	-1016.7
			15936	781.5	6422.7		L: Interface 50 PJMCentral-C		-103.6		0.0	0.13253		0.13253	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
		NA		781.5	6422.7	R	L: Interface 50 PJMCentral-C		-103.6		0.0	0.13253		0.13253	-194.3	-90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			15937	781.5	6422.7		L: Interface 49 C-PJMCentral		103.6		0.0	-0.13253		-0.13253	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
		NA		781.5	6422.7	R	L: Interface 49 C-PJMCentral		103.6		0.0	-0.13253		-0.13253	194.3	90.7
							C:GEN:9 MI PT21		562							
							Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch									
			15940	889.9	6531.1		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2		-1566.4	-1725.0	-0.17825			-0.18200	-1281.5	-1443.5
							C:125002 ROSETON 345 126281 FISHKILL 345 1		10							
							Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18921	-0.01984	1505.3	1487.7
			15941	889.9	6531.1		L:126294 PLTVLLEY 345 137451 LEEDS 3 345 2		-1566.4	-1725.0	-0.17825			-0.18200	-1281.5	-1443.5
							C:SIN:4301		683							
							Open 125002 ROSETON 345 126281 FISHKILL 345 1						-0.18921	-0.01984	1505.3	1487.7
			15942	907.8	6549		L:126294 PLTVLLEY 345 137455 ATHENS 345 1		-1523.8	-1725.0	-0.22163			-0.17345	-1241.5	-1398.9
							C:125000 HURLEY 3 345 137451 LEEDS 3 345 1		3							
							Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1						0.31399	-0.15344	-899.1	-1038.4
			15943	909.2	6550.4		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1		-625.4	-707.0	-0.08979			-0.05432	-445.8	-495.2
							C:125001 ROCK TAV 345 126297 RAMAPO 345 1		7							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.16092	0.22045	1116.0	1316.4
			15944	909.2	6550.4		L:146771 SHOEM138 138 146772 SHOEMTAP 138 1		-625.4	-707.0	-0.08979			-0.05432	-445.8	-495.2
							C:SIN:4401		684							
							Open 125001 ROCK TAV 345 126297 RAMAPO 345 1						-0.16092	0.22045	1116.0	1316.4
			15945	950	6591.1		L:146758 CHESTER 138 146771 SHOEM138 138 1		-260.5	-317.0	-0.05952			-0.03374	-175.4	-207.4
							C:125001 ROCK TAV 345 146754 MDTN TAP 345 1		9							
							Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1						0.19956	-0.12915	-426.4	-549.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			15950	978.7	6619.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-993.8	-1207.0	-0.21784					
			15951	992.1	6633.3		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1472.9	-1725.0	-0.25408			-0.18200	-1281.5	-1462.1
								C:137451 LEEDS 3 345 137455 ATHENS 345 11	6								
								Open 137451 LEEDS 3 345 137455 ATHENS 345 1					-0.44120	0.16338	433.7	595.8	
			15964	1066	6707.1		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34813			0.35546	2523.0	2901.9
								C:125002 ROSETON 345 126281 FISHKILL 345 1	10								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.36927	-0.01984	1505.3	1484.2	
			15965	1066	6707.1		L: Interface	14 Leeds-PV		3078.9	3450.0	0.34813			0.35546	2523.0	2901.9
								C:SIN:4301	683								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.36927	-0.01984	1505.3	1484.2	
			15974	1125	6766.1		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1474.9	-1725.0	-0.22231			-0.18200	-1281.5	-1486.3
								C:125000 HURLEY 3 345 125002 ROSETON 345 1	1								
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					-0.29336	0.13741	659.1	813.7	
			15979	1165	6806.2	*	L: Interface	56 NYE-PUMEnoRE		-1242.4	-1287.0	-0.03827			0.00000	-1299.4	-1299.4
								C:ETHS/LLGD1	650								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.35147	-0.07294	116.1	31.1	
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.43285	-0.02918	37.4	3.4	
			15980	1165	6806.2	*	L: Interface	55 PUME-NYEnoRE		1242.4	1287.0	0.03827			0.00000	1299.4	1299.4
								C:ETHS/LLGD1	650								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					-0.35147	-0.07294	116.1	31.1	
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					-0.43285	-0.02918	37.4	3.4	
			16003	1250.7	6891.8		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1512.5	-1725.0	-0.16988			-0.17345	-1241.5	-1458.4
								C:SIN:4301	683								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.18006	-0.01984	1505.3	1480.5	
			16004	1250.7	6891.8		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1512.5	-1725.0	-0.16988			-0.17345	-1241.5	-1458.4
								C:125002 ROSETON 345 126281 FISHKILL 345 1	10								
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					-0.18006	-0.01984	1505.3	1480.5	
			16007	1266	6907.2		L: Interface	14 Leeds-PV		2900.4	3450.0	0.43412			0.35546	2523.0	2973.0
								C:125000 HURLEY 3 345 125002 ROSETON 345 1	1								
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					0.57252	0.13741	659.1	833.1	
			16030	1343.6	6984.8		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.08979			0.05432	445.8	518.7
								C:125001 ROCK TAV 345 126297 RAMAPO 345 1	7								
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.16092	0.22045	1116.0	1412.2	
			16031	1343.6	6984.8		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		625.4	746.0	0.08979			0.05432	445.8	518.7
								C:SIN:4401	684								
								Open 125001 ROCK TAV 345 126297 RAMAPO 345 1					0.16092	0.22045	1116.0	1412.2	
			16050	1372	7013.2		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1430.5	-1725.0	-0.21465			-0.18200	-1281.5	-1531.3
								C:130750 COOPC345 345 130753 FRASR345 345 1	192								
								Open 130750 COOPC345 345 130753 FRASR345 345 1					0.14988	-0.21784	-993.8	-1292.7	
			16055	1380.4	7021.6		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-1351.3	-1724.0	-0.27002			-0.17288	-865.1	-1103.7
								C:137451 LEEDS 3 345 137453 N.SCOT99 345 21	5								
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.56507	-0.17190	-860.4	-1097.7	
			16062	1395	7036.2		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1348.2	-1724.0	-0.26938			-0.17190	-860.4	-1100.2
								C:137451 LEEDS 3 345 137452 N.SCOT77 345 11	4								
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.56387	-0.17288	-865.1	-1106.2	
			16107	1413.9	7055		L:130750	COOPC345 345 130753 FRASR345 345 1		-1314.3	-1703.0	-0.27491			-0.21784	-993.8	-1301.8
								C:130750 COOPC345 345 147833 MARCY T1 345 1	196								
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					0.43311	-0.13178	-740.0	-926.3	
			16108	1414	7055.2		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1425.5	-1725.0	-0.21181			-0.17345	-1241.5	-1486.8
								C:125000 HURLEY 3 345 125002 ROSETON 345 1	1								
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					-0.27917	0.13741	659.1	853.4	
			NA	1455.9	7097	R	L: Interface	51 G-PUMEast		74.9	0.0	-0.05142			0.00000	-0.3	-0.3
								C:ETHS/NWES/LLGD1	649								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					0.37659	-0.07294	116.1	9.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					0.38829	-0.03041	40.8	-3.4	
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					0.41611	-0.02918	37.4	-5.1	
			16319	1455.9	7097		L: Interface	52 PJMEast-G		-74.9	0.0	0.05142			0.00000	0.3	0.3
								C:ETHS/NWES/LLGD1	649								
								Open 130763 HILSD230 230 200675 E.TWANDA 230 1					-0.37659	-0.07294	116.1	9.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1					-0.38829	-0.03041	40.8	-3.4	
								Open 130807 GOUDY115 115 200680 LAUREL L 115 1					-0.41611	-0.02918	37.4	-5.1	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			16320	1455.9	7097	*	L: Interface 51 G-PJMEast										
							C:ETHS/NWES/LLGD1		649	74.9	0.0	-0.05142		0.00000	-0.3	-0.3	
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				0.37659	-0.07294	116.1	9.9	
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				0.38829	-0.03041	40.8	-3.4	
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				0.41611	-0.02918	37.4	-5.1	
			NA	1455.9	7097	R	L: Interface 52 PJMEast-G			-74.9	0.0	0.05142		0.00000	0.3	0.3	
							C:ETHS/NWES/LLGD1		649								
							Open 130763 HILSD230	230 200675 E.TWANDA	230 1				-0.37659	-0.07294	116.1	9.9	
							Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.38829	-0.03041	40.8	-3.4	
							Open 130807 GOUDY115	115 200680 LAUREL L	115 1				-0.41611	-0.02918	37.4	-5.1	
			NA	1517.5	7158.7	R	L: Interface 53 PJME-NYE			1000.5	787.0	-0.14067		0.00000	452.2	452.2	
							C:SIN:1301		669								
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.69167	0.23158	39.8	391.2	
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2		NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch									
			NA	1517.5	7158.7	R	L: Interface 54 NYE-PJME			-1000.5	-787.0	0.14067		0.00000	-452.2	-452.2	
							C:SIN:1201		668								
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.69167	0.23158	39.8	391.2	
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2		NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch									
			NA	1517.5	7158.7	R	L: Interface 53 PJME-NYE			1000.5	787.0	-0.14067		0.00000	452.2	452.2	
							C:SIN:1201		668								
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				-0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				-0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.69167	0.23158	39.8	391.2	
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2		NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch									
			NA	1517.5	7158.7	R	L: Interface 54 NYE-PJME			-1000.5	-787.0	0.14067		0.00000	-452.2	-452.2	
							C:SIN:1301		669								
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 1				0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126291 MILLWOOD	345 2				0.06930	-0.14077	785.6	572.0	
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.69167	0.23158	39.8	391.2	
							Open 126263 BUCHANAN S	345 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1		NA						
							Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2		NA						
							Remove unit 1 from bus 147798 IP#3 GEN	22.0 1072.8 MW dispatch									
			19343	1517.9	7159.1		L: Interface 14 Leeds-PV			2813.7	3450.0	0.41917		0.35546	2523.0	3062.6	
							C:130750 COOPC345	345 130753 FRASR345	345 1	192							
							Open 130750 COOPC345	345 130753 FRASR345	345 1				-0.29251	-0.21784	-993.8	-1324.5	
			19364	1528.9	7170.1		L:130750 COOPC345	345 146754 MDTN TAP	345 1	1349.4	1793.0	0.29013		0.18347	872.9	1153.4	
							C:125001 ROCK TAV	345 130750 COOPC345	345 2	8							
							Open 125001 ROCK TAV	345 130750 COOPC345	345 2				-0.64201	-0.16614	-742.3	-996.3	
			19367	1546	7187.1		L:146758 CHESTER	138 146773 SGR1F138	138 1	225.0	317.0	0.05952		0.03374	139.9	192.1	
							C:125001 ROCK TAV	345 146754 MDTN TAP	345 1	9							
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				-0.19956	-0.12915	-426.4	-626.1	
			19446	1608.9	7250		L:130817 JENN 115	115 130819 KATEL115	115 1		-104.8	-159.0	-0.03369		-0.01673	-69.4	-96.3
							C:130753 FRASR345	345 130755 OAKDL345	345 1	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.06258	-0.27093	-566.1	-1002.0	
			19447	1622.3	7263.5		L: Interface 32 F-To-G			3715.6	4643.0	0.57162					
							Base Case										
			19450	1671.1	7312.2		L:126294 PLTVLLEY	345 137455 ATHENS	345 1		-1383.2	-1725.0	-0.20452		-0.17345	-1241.5	-1531.3
							C:130750 COOPC345	345 130753 FRASR345	345 1	192							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			NA	1965.3	7606.5	R	L: Interface 23 QFW	Remove unit 2 from bus 136700 9M PT 2G 25.0 1198.7 MW dispatch								
								C:HQ-NY-765-New1	777	919.4	0.0	-0.46781		-0.46426	1095.9	183.5
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.25140	0.00757	624.3	639.1
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.25140	0.00658	543.3	556.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00708	10.7	-3.2
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			19514	1965.3	7606.5		L: Interface 23 QFW			919.4	0.0	-0.46781		-0.46426	1095.9	183.5
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765 765 1		NA						
								Open 147828 MASS 765 765 180819 CHA-NY 765 1		NA						
								Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.25140	0.00757	624.3	639.1
								Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.25140	0.00658	543.3	556.2
								Open 156 MCY765SW 0.0 147827 MARCY765 765 1		NA						
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.00708	10.7	-3.2
								Open 147828 MASS 765 765 147838 MASS230B 230 1		NA						
								Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.09628	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A 230 1		NA						
								Open 158 MS765SW2 0.0 147828 MASS 765 765 1		NA						
								Open 157 MS765SW1 0.0 147828 MASS 765 765 1		NA						
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			NA	2008.3	7649.5	R	L:125015 AC CBLTP 115 125041 N.CHELSE 115 1			319.0	240.0	-0.03932		-0.02002	162.2	122.0
								C:125021 DC CBLTP 115 125041 N.CHELSE 115 1	29							
								Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1					0.92978	-0.02075	168.6	126.9
			NA	2013.8	7655	R	L:125015 AC CBLTP 115 125041 N.CHELSE 115 1			319.2	240.0	-0.03932		-0.02002	162.2	121.9
								C:125020 DANSKAMA 115 125021 DC CBLTP 115 1	25							
								Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1					0.92978	-0.02075	168.8	127.0
			19521	2026.9	7668.1		L: Interface 23 QFW			941.0	0.0	-0.46426		-0.46426	1095.9	154.9
								C:GEN:GINNAL	563							
								Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch								
			NA	2026.9	7668.1	R	L: Interface 23 QFW			941.0	0.0	-0.46426		-0.46426	1095.9	154.9
								C:GEN:GINNAL	563							
								Remove unit 1 from bus 149140 GINNA 19 19.0 605.0 MW dispatch								
			19525	2043.9	7685.1		L:135872 SOUR-111 115 135873 SWDN-111 115 1			89.3	159.0	0.03409		0.02285	71.5	118.2
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04252	0.26434	418.2	958.5
			19526	2052.2	7693.3		L: Interface 14 Leeds-FV			2663.5	3450.0	0.38323		0.35546	2523.0	3252.5
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.18265	0.18347	872.9	1249.4
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					0.04437	-0.12915	-426.4	-691.5
			19530	2064	7705.1		L: Interface 14 Leeds-FV			2664.4	3450.0	0.38063		0.35546	2523.0	3256.7
								C:130750 COOPC345 345 147833 MARCY T1 345 1	196							
								Open 130750 COOPC345 345 147833 MARCY T1 345 1					-0.19102	-0.13178	-740.0	-1012.0
			19532	2082.8	7723.9		L: Interface 23 QFW			966.9	0.0	-0.46426		-0.46426	1095.9	129.0
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			NA	2082.8	7723.9	R	L: Interface 23 QFW			966.9	0.0	-0.46426		-0.46426	1095.9	129.0
								C:GEN:SEAB&OMS1	576							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2									
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch					0.00003	0.00000	-0.1	-0.1	
			19537	2093.8	7734.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-762.3	-1380.0	-0.29503		-0.27093	-566.1	-1133.4	
								C:130753 FRASR345 345 137200 EDIC 345 1	202								
								Open 130753 FRASR345 345 137200 EDIC 345 1					0.27552	-0.08749	-712.0	-895.1	
			19538	2096.1	7737.3		L:130819	KATEL115 115 130838 OAKDL115 115 1		-121.4	-192.0	-0.03369		-0.01673	-86.0	-121.0	
								C:130753 FRASR345 345 130755 OAKDL345 345 1	200								
								Open 130753 FRASR345 345 130755 OAKDL345 345 1					0.06258	-0.27093	-566.1	-1134.0	
			19539	2096.6	7737.8		L:137451	LEEDS 3 345 137453 N.SCOT99 345 2		-1214.4	-1724.0	-0.24304		-0.17190	-860.4	-1220.8	
								C:BUS:N.S. 771	615								
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					0.60778	-0.03909	-242.4	-324.4	
								Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1					0.40442	-0.00373	113.3	105.5	
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.33527	0.16319	820.4	1162.6	
								Open 137450 ALPS345 345 137452 N.SCOT77 345 1					-0.26700	-0.03313	-84.4	-153.9	
								Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1					0.20564	0.00000	0.0	0.0	
			19540	2104.6	7745.7		L: Interface	14 Leeds-PV		2647.1	3450.0	0.38152		0.35546	2523.0	3271.1	
								C:130750 COOPC345 345 146754 MDTN TAP 345 1	195								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					0.14209	0.18347	872.9	1259.0	
			19543	2124.5	7765.7		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1		99.5	173.0	0.03460		0.02698	77.9	135.2	
								C:130754 KINTI345 345 149000 ROCH 345 345 1	205					0.04136	0.18423	521.8	913.1
								Open 130754 KINTI345 345 149000 ROCH 345 345 1									
			NA	2125.7	7766.9	R	L: Interface	54 NYE-PUME		-1087.0	-787.0	0.14111		0.00000	-452.2	-452.2	
								C:GEN:IND PT 3-New1	774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0	
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					0.60931	0.23158	-1041.8	-549.5	
			NA	2125.7	7766.9	R	L: Interface	53 PUME-NYE		1087.0	787.0	-0.14111		0.00000	452.2	452.2	
								C:GEN:IND PT 3-New1	774								
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1					0.00000	-0.11640	522.5	275.0	
								Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2					-0.60931	0.23158	-1041.8	-549.5	
			NA	2126.8	7767.9	R	L: Interface	53 PUME-NYE		1085.6	787.0	-0.14041		0.00000	452.2	452.2	
								C:GEN:IND PT 2-New1	773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2	
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					-0.62193	0.22576	-1018.5	-538.3	
			NA	2126.8	7767.9	R	L: Interface	54 NYE-PUME		-1085.6	-787.0	0.14041		0.00000	-452.2	-452.2	
								C:GEN:IND PT 2-New1	773								
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 1					0.00000	0.11288	-509.2	-269.2	
								Open 126288 IP2 345 345 126651 IND PT 2 22.0 2					0.62193	0.22576	-1018.5	-538.3	
			19544	2139.9	7781		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		445.8	562.0	0.05432					
								Base Case									
			19547	2153.1	7794.3		L: Interface	14 Leeds-PV		2627.6	3450.0	0.38198		0.35546	2523.0	3288.4	
								C:SER:PV LM 3981	598								
								Open 103105 LONG MTN 345 103117 CTNY398 345 1					0.33670	0.07877	310.6	480.2	
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1					-0.23705	0.00000	0.2	0.2	
			19548	2153.2	7794.3	*	L: Interface	14 Leeds-PV		2627.5	3450.0	0.38198		0.35546	2523.0	3288.4	
								C:103117 CTNY398 345 126294 PLTVLLEY 345 11	362				0.33670	0.07877	310.4	480.0	
								Open 103117 CTNY398 345 126294 PLTVLLEY 345 1									
			19554	2188	7829.1		L:130750	COOPC345 345 130753 FRASR345 345 1		-1076.8	-1703.0	-0.28619		-0.21784	-993.8	-1470.4	
								C:130753 FRASR345 345 147831 GILB 345 345 1	203								
								Open 130753 FRASR345 345 147831 GILB 345 345 1					-0.39407	0.17345	210.7	590.2	
			19558	2192.9	7834.1		L:130757	WATRC345 345 130768 WATRC230 230 1		459.8	600.0	0.06394		-0.06838	264.1	114.1	
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206								
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.74954	-0.17654	-261.1	-648.2	
			19559	2196.4	7837.6		L:135862	MUMFORD1 115 135866 NLEROYTA 115 1		-83.3	-173.0	-0.04084		-0.02744	-62.1	-122.4	
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226								
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.26434	418.2	998.8	
			19561	2208.6	7849.7		L:146754	MDTN TAP 345 146772 SHOEMTAP 138 1		553.8	746.0	0.08703		0.05432	448.8	565.7	
								C:125001 ROCK TAV 345 146754 MDTN TAP 345 1	9								
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.25331	-0.12915	-426.4	-711.7	
			19564	2219.3	7860.4		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1310.0	-1725.0	-0.18700		-0.17345	-1241.5	-1626.4	
								C:SER:CMT34&MTR341	594								
								Open 130750 COOPC345 345 146754 MDTN TAP 345 1					-0.08906	0.18347	872.9	1280.0	
								Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1					-0.02164	-0.12915	-426.4	-713.0	





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			24749	2642.8	8283.9		L:130753	FRASR345 345 130755 OAKDL345 345 1		-631.2	-1380.0	-0.28335		-0.27093	-566.1	-1282.1
								C:137453 N.SCOT99 345 147833 MARCY T1 345 11	12							
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.07093	-0.17508	-917.3	-1380.0
			24752	2646.7	8287.9		L:130770	SHLDN230 230 131122 WTHRS230 230 1		296.7	540.0	0.09193		0.07915	231.9	441.4
								C:130757 WATRC345 345 200769 HOMER CY 345 11	374							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11817	-0.10816	-547.8	-834.1
			24768	2652.7	8293.9		L:130750	COOPC345 345 130753 FRASR345 345 1		-1089.6	-1703.0	-0.23122		-0.21784	-993.8	-1571.7
								C:126294 PLTVLLEY 345 137455 ATHENS 345 1	121							
								Open 126294 PLTVLLEY 345 137455 ATHENS 345 1					0.07718	-0.17345	-1241.5	-1701.6
			24775	2658.5	8299.7		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.28240		-0.27093	-566.1	-1286.4
								C:SIN:1501	670							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.16319	820.4	1254.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04607	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 147905 ILION 115 1					0.00061	-0.00020	88.8	88.3
			24776	2658.5	8299.7		L:130753	FRASR345 345 130755 OAKDL345 345 1		-629.2	-1380.0	-0.28240		-0.27093	-566.1	-1286.4
								C:SIN:1601	671							
								Open 137200 EDIC 345 137452 N.SCOT77 345 1					-0.07028	0.16319	820.4	1254.3
								Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1					-0.04614	0.00000	119.9	119.9
								Open 137235 PORTER 1 115 137246 VALLEY 115 1					0.00092	-0.00031	74.9	74.1
			24781	2663.5	8304.6		L:131018	LOUN5115 115 131850 CNYOG115 115 1		14.5	143.0	0.04823		0.03370	17.2	107.0
								C:BUS:WATERCURE 3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.05666	-0.10816	-547.8	-835.9
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.12284	-0.06838	264.1	81.9
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.05531	0.00000	22.7	22.7
			24788	2667.6	8308.8		L:135851	SHEL-113 115 135874 SWDN-113 115 1		88.0	180.0	0.03449		0.02312	70.0	131.7
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.04303	0.26434	418.2	1123.3
			24791	2667.9	8309.1		L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.27093		-0.27093	-566.1	-1288.9
								C:GEN:SEAB&OMS1	576							
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			24792	2667.9	8309.1*		L:130753	FRASR345 345 130755 OAKDL345 345 1		-657.2	-1380.0	-0.27093		-0.27093	-566.1	-1288.9
								C:GEN:SEABROOK1	574							
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			24796	2671.6	8312.7		L:130770	SHLDN230 230 131122 WTHRS230 230 1		294.5	540.0	0.09190		0.07915	231.9	443.4
								C:SER:HC-WC_30&W-F_1711	602							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.11759	-0.10816	-547.8	-836.8
								Open 135277 FALCONER 115 200579 WARREN 115 1					0.05270	0.00063	-35.9	-34.2
			24807	2678.1	8319.3		L:135850	SOUR-114 115 135861 MORTIMER 115 1		71.2	153.0	0.03055		0.02378	52.0	115.7
								C:130754 KINTI345 345 149000 ROCH 345 345 1	205							
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.03670	0.18423	521.8	1015.1
			24821	2688.8	8330		L:130807	GOUDY115 115 130848 S.OWE115 115 1		-1.9	-143.0	-0.05246		-0.03370	25.8	-64.8
								C:130755 OAKDL345 345 130757 WATRC345 345 1	206							
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.10626	-0.17654	-261.1	-735.8
			24825	2690	8331.2		L:131018	LOUN5115 115 131850 CNYOG115 115 1		-13.2	143.0	0.05806		0.03370	17.2	107.9
								C:BUS:WATERCURE 2301	634							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.24197	0.04919	73.0	205.3
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.18210	-0.06838	264.1	80.1
								Open 130763 HILSD230 230 130768 WATRC230 230 1					0.12851	0.00000	0.5	0.5
			24829	2691.4	8332.5		L:135850	SOUR-114 115 135876 TELRDP1 115 1		-84.5	-180.0	-0.03548		-0.02379	-66.0	-130.0
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04425	0.26434	418.2	1129.6
			24834	2695.1	8336.3		L:137451	LEEDS 3 345 137452 N.SCOT77 345 1		-865.1	-1331.0	-0.17288				
								Base Case								
			24835	2697.1	8338.3		L:130750	COOPC345 345 130753 FRASR345 345 1		-1080.1	-1703.0	-0.23097		-0.21784	-993.8	-1581.3
								C:BUS:N.S._991	616							
								Open 137453 N.SCOT99 345 147831 GILB 345 345 1					0.12469	-0.03209	-307.4	-393.9
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					0.04434	-0.17508	-917.3	-1389.5
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.00285	-0.00382	120.3	110.0
								Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2					0.00801	-0.17190	-860.4	-1324.1
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					-0.01543	0.00000	1.6	1.6
			24842	2699.5	8340.6		L:135858	GOLAH115 115 135862 MUMFORD1 115 1		-62.8	-173.0	-0.04084		-0.02744	-41.6	-115.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.05070	0.26434	418.2	1131.8
			24852	2703.8	8344.9		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-12.6	-143.0	-0.04823		-0.03370	-15.2	-106.4
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.05666	-0.10816	-547.8	-840.3
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.12284	-0.06838	264.1	79.2
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.05531	0.00000	22.7	22.7
			24856	2704.7	8345.8		L: Interface 54 NYE-PJME			-598.1	-787.0	-0.06984		0.00000	-452.2	-452.2
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.25776	-0.27093	-566.1	-1298.9
			24857	2704.7	8345.8		L: Interface 53 PJME-NYE			598.1	787.0	0.06984		0.00000	452.2	452.2
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						-0.25776	-0.27093	-566.1	-1298.9
			24867	2718.5	8359.7		L:147834 NIAG 345 345 149000 ROCH 345 345 1			697.9	1685.0	0.36310		0.26434	418.2	1136.8
							C:130754 KINTI345 345 149000 ROCH 345 345 1		205							
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						0.53609	0.18423	521.8	1022.6
			24876	2723.5	8364.6		L:130848 S.OWE115 115 131850 CNYOG115 115 1			15.1	-143.0	-0.05806		-0.03370	-15.2	-107.0
							C:BUS:WATERCURE_2301		634							
							Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.24197	0.04919	73.0	207.0
							Open 130757 WATRC345 345 130768 WATRC230 230 1						0.18210	-0.06838	264.1	77.8
							Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.12851	0.00000	0.5	0.5
			24884	2732	8373.1		L:130764 MEYER230 230 131122 WTHRS230 230 1			-272.0	-540.0	-0.09811		-0.07926	-242.2	-458.7
							C:147834 NIAG 345 345 149000 ROCH 345 345 11		226							
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						-0.07130	0.26434	418.2	1140.3
			24886	2733	8374.1		L:137200 EDIC 345 137452 N.SCOT77 345 1			1121.1	1724.0	0.22059		0.16319	820.4	1266.4
							C:137453 N.SCOT99 345 147833 MARCY T1 345 11		12							
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						-0.32782	-0.17508	-917.3	-1395.8
			24892	2735.6	8376.7		L:130767 STOLE230 230 130770 SHLDN230 230 1			285.3	540.0	0.09312		0.07903	221.3	437.5
							C:SER:HCWC/NWES1		608							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.11956	-0.10816	-547.8	-843.7
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.03820	-0.03041	40.8	-42.4
			24896	2737.5	8378.6		L:137451 LEEDS 3 345 137453 N.SCOT99 345 2			-860.4	-1331.0	-0.17190				
							Base Case									
			24904	2745.5	8386.6		L:135861 MORTIMER 115 135873 SWDN-111 115 1			-54.0	-153.0	-0.03607		-0.02418	-35.1	-101.5
							C:147834 NIAG 345 345 149000 ROCH 345 345 11		226							
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						-0.04499	0.26434	418.2	1143.9
			24942	2765.9	8407.1		L:130767 STOLE230 230 130770 SHLDN230 230 1			286.1	540.0	0.09181		0.07903	221.3	439.9
							C:130757 WATRC345 345 200769 HOMER CY 345 11		374							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.11817	-0.10816	-547.8	-847.0
			24970	2772.4	8413.5		L:130750 COOPC345 345 130753 FRASR345 345 1			-1060.5	-1703.0	-0.23174		-0.21784	-993.8	-1597.7
							C:125000 HURLEY 3 345 125002 ROSETON 345 1		1							
							Open 125000 HURLEY 3 345 125002 ROSETON 345 1						-0.10122	0.13741	659.1	1040.1
			24989	2775.7	8416.8		L:131018 LOUNS115 115 131850 CNYOG115 115 1			47.3	143.0	0.03449		0.03370	17.2	110.7
							C:130755 OAKDL345 345 131128 LAPEER 345 1		209							
							Open 130755 OAKDL345 345 131128 LAPEER 345 1						-0.05020	-0.01573	-599.0	-642.6
			25138	2784.5	8425.6		L:137451 LEEDS 3 345 147831 GILB 345 345 1			-1313.8	-1912.0	-0.21485		-0.15403	-915.6	-1344.5
							C:BUS:N.S._991		616							
							Open 137453 N.SCOT99 345 147831 GILB 345 345 1						0.62610	-0.03209	-307.4	-396.7
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						0.16119	-0.17508	-917.3	-1404.8
							Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1						0.03268	-0.00382	120.3	109.6
							Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2						0.07200	-0.17190	-860.4	-1339.1
							Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						0.10447	0.00000	1.6	1.6
			26336	2790.8	8432		L:130767 STOLE230 230 130770 SHLDN230 230 1			283.8	540.0	0.09178		0.07903	221.3	441.9
							C:SER:HC-WC_30&W-F_1711		602							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						-0.11759	-0.10816	-547.8	-849.7
							Open 135277 FALCONER 115 200579 WARREN 115 1						0.05270	0.00063	-35.9	-34.1
			26410	2794.6	8435.8		L:131018 LOUNS115 115 131850 CNYOG115 115 1			28.2	143.0	0.04110		0.03370	17.2	111.4
							C:130768 WATRC230 230 130772 SHRED230 230 1		227							
							Open 130768 WATRC230 230 130772 SHRED230 230 1						0.15025	0.04919	73.0	210.5
			26422	2795.6	8436.7		L:137200 EDIC 345 137452 N.SCOT77 345 1			1117.8	1724.0	0.21683		0.16319	820.4	1276.6
							C:BUS:N.S._991		616							
							Open 137453 N.SCOT99 345 147831 GILB 345 345 1						-0.18531	-0.03209	-307.4	-397.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 137453 N.SCOT99 345 147833 MARCY T1 345 1					-0.38310	-0.17508	-917.3	-1406.8
								Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1					-0.09741	-0.00382	120.3	109.6
								Open 137451 LEBDS 3 345 137453 N.SCOT99 345 2					0.11491	-0.17190	-860.4	-1341.0
								Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1					-0.24149	0.00000	1.6	1.6
			26461	2800.8	8441.9		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21293		0.22045	1116.0	1733.4
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01984	1505.3	1449.8
			26462	2800.8	8441.9		L:125001	ROCK TAV 345 126297 RAMAPO 345 1		1686.6	2283.0	0.21293		0.22045	1116.0	1733.4
								C:125002 ROSETON 345 126281 FISHKILL 345 1	10							
								Open 125002 ROSETON 345 126281 FISHKILL 345 1					0.37909	-0.01984	1505.3	1449.8
			26477	2805.2	8446.3		L:135861	MORTIMER 115 135874 SWDN-113 115 1		-50.4	-153.0	-0.03659		-0.02452	-31.3	-100.1
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					-0.04563	0.26434	418.2	1159.7
			26490	2807.1	8448.3		L: Interface	54 NYE-PJME		-622.4	-787.0	-0.05863		0.00000	-452.2	-452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					0.42109	-0.10816	-547.8	-851.4
								Open 130757 WATRC345 345 130768 WATRC230 230 1					0.19143	-0.06838	264.1	72.1
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					0.43803	0.00000	22.7	22.7
			26491	2807.1	8448.3		L: Interface	53 PJME-NYE		622.4	787.0	0.05863		0.00000	452.2	452.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY 345 1					-0.42109	-0.10816	-547.8	-851.4
								Open 130757 WATRC345 345 130768 WATRC230 230 1					-0.19143	-0.06838	264.1	72.1
								Open 130755 OAKDL345 345 130757 WATRC345 345 1					-0.43803	0.00000	22.7	22.7
			26507	2811.4	8452.5		L:131018	LOUN5115 115 131850 CNYOG115 115 1	27.5	143.0	0.04110		0.03370	17.2	111.9	
								C:SER:OAKDALE WATRC2301	595							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					0.15025	0.04919	73.0	211.3
								Open 130765 OAKDL230 230 130772 SHRED230 230 1	NA							
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					-0.10159	0.00000	6.8	6.8
			26512	2813.1	8454.3		L:131018	LOUN5115 115 131850 CNYOG115 115 1	17.2	112.0	0.03370					
								Base Case								
			26516	2815	8456.1		L: Interface	32 F-To-G		4206.2	6118.0	0.67915		0.57162	3715.6	5324.7
								C:130750 COOPC345 345 130753 FRASR345 345 1	192							
								Open 130750 COOPC345 345 130753 FRASR345 345 1					-0.49363	-0.21784	-993.8	-1607.0
			26523	2816.8	8458		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	87.8	173.0	0.03023		0.02698	77.9	153.9	
								C:130764 MEYER230 230 131122 WTHRS230 230 1	221							
								Open 130764 MEYER230 230 131122 WTHRS230 230 1					-0.04101	-0.07926	-242.2	-465.4
			26530	2818.4	8459.6		L:131018	LOUN5115 115 131850 CNYOG115 115 1	27.2	143.0	0.04110		0.03370	17.2	112.2	
								C:130765 OAKDL230 230 130772 SHRED230 230 1	222							
								Open 130765 OAKDL230 230 130772 SHRED230 230 1					-0.15025	-0.04919	-66.5	-205.1
			26532	2818.9	8460		L:130815	HINMN115 115 135452 LOCKPORT 115 1	192.1	280.0	0.03117		0.02351	170.5	236.7	
								C:130754 KINTI345 345 149000 ROCH 345 345 1	205				0.04157	0.18423	521.8	1041.1
								Open 130754 KINTI345 345 149000 ROCH 345 345 1					0.04157	0.18423	521.8	1041.1
			26534	2819.4	8460.5		L:131018	LOUN5115 115 131850 CNYOG115 115 1	27.1	143.0	0.04110		0.03370	17.2	112.2	
								C:130765 OAKDL230 230 130838 OAKDL115 115 1	223							
								Open 130765 OAKDL230 230 130838 OAKDL115 115 1					0.15025	0.04919	66.2	204.9
			26548	2831.1	8472.2		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	87.4	173.0	0.03023		0.02698	77.9	154.3	
								C:130770 SHLDN230 230 131122 WTHRS230 230 1	228							
								Open 130770 SHLDN230 230 131122 WTHRS230 230 1					0.04101	0.07915	231.9	456.0
			26551	2832	8473.2		L:130848	S.OWE115 115 131850 CNYOG115 115 1	-45.3	-143.0	-0.03449		-0.03370	-15.2	-110.7	
								C:130755 OAKDL345 345 131128 LAPEER 345 1	209							
								Open 130755 OAKDL345 345 131128 LAPEER 345 1					0.05020	-0.01573	-599.0	-643.5
			26562	2838.7	8479.9		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	75.9	173.0	0.03421		0.02698	77.9	154.5	
								C:130754 KINTI345 345 147834 NIAG 345 345 1	204							
								Open 130754 KINTI345 345 147834 NIAG 345 345 1					-0.04136	-0.17467	48.6	-447.2
			26563	2839.2	8480.4		L:130770	SHLDN230 230 131122 WTHRS230 230 1	261.8	540.0	0.09800		0.07915	231.9	456.7	
								C:147834 NIAG 345 345 149000 ROCH 345 345 11	226							
								Open 147834 NIAG 345 345 149000 ROCH 345 345 1					0.07130	0.26434	418.2	1168.7
			26564	2841.9	8483.1		L:130848	S.OWE115 115 131850 CNYOG115 115 1	-26.2	-143.0	-0.04110		-0.03370	-15.2	-111.0	
								C:130768 WATRC230 230 130772 SHRED230 230 1	227							
								Open 130768 WATRC230 230 130772 SHRED230 230 1					-0.15025	0.04919	73.0	212.8
			26568	2846	8487.1		L:135859	LAPPINS1 115 135866 NLEROYTA 115 1	87.0	173.0	0.03022		0.02698	77.9	154.7	
								C:130767 STOLE230 230 130770 SHLDN230 230 1	226							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130767 STOLE230 230 130770 SHLDN230 230 1					0.04101	0.07903	221.3	446.2
			26578	2858.7	8499.8		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.5	-143.0	-0.04110		-0.03370	-15.2	-111.6
							C:SER:OAKDALE WATRC2301		595							
							Open 130768 WATRC230 230 130772 SHRED230 230 1						-0.15025	0.04919	73.0	213.6
							Open 130765 OAKDL230 230 130772 SHRED230 230 1			NA						
							Open 130765 OAKDL230 230 130838 OAKDL115 115 1						0.10159	0.00000	6.8	6.8
			26582	2864.5	8505.7		L:130750 COOPC345 345 130753 FRASR345 345 1			-1047.7	-1703.0	-0.22877		-0.21784	-993.8	-1617.8
							C:BUS:N.S._771		615							
							Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						0.03869	-0.03909	-242.4	-354.4
							Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1						0.01601	-0.00373	113.3	102.7
							Open 137200 EDIC 345 137452 N.SCOT77 345 1						-0.05550	0.16319	820.4	1287.9
							Open 137450 ALPS345 345 137452 N.SCOT77 345 1						0.00921	-0.03313	-84.4	-179.3
							Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1						-0.01098	0.00000	0.0	0.0
			26583	2864.7	8505.8		L:130753 FRASR345 345 132000 EDIC 345 1			-888.0	-1380.0	-0.17174		-0.08749	-712.0	-962.6
							C:130753 FRASR345 345 130755 OAKDL345 345 1		200							
							Open 130753 FRASR345 345 130755 OAKDL345 345 1						0.31098	-0.27093	-566.1	-1342.2
			26584	2865.7	8506.9		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04110		-0.03370	-15.2	-111.8
							C:130765 OAKDL230 230 130772 SHRED230 230 1		222							
							Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.15025	-0.04919	-66.5	-207.5
			26585	2866.1	8507.3		L:131018 LOUNSI15 115 131850 CNYOG115 115 1			-20.9	143.0	0.05717		0.03370	17.2	113.8
							C:130763 HILSD230 230 130768 WATRC230 230 1		219							
							Open 130763 HILSD230 230 130768 WATRC230 230 1						0.19958	0.11757	-190.6	146.4
			26586	2866.7	8507.8		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-25.2	-143.0	-0.04110		-0.03370	-15.2	-111.9
							C:130765 OAKDL230 230 130838 OAKDL115 115 1		223							
							Open 130765 OAKDL230 230 130838 OAKDL115 115 1						-0.15025	0.04919	66.2	207.2
			26588	2867.8	8509		L:130815 HINMNI15 115 131611 HARSIS115 115 1			-219.0	-306.0	-0.03032		-0.02288	-198.0	-263.6
							C:130754 KINTI345 345 149000 ROCH 345 345 1		205							
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.04038	0.18423	521.8	1050.1
			26591	2870.8	8511.9		L:130848 S.OWE115 115 131850 CNYOG115 115 1			-15.2	-112.0	-0.03370				
							Base Case									
			26600	2883.2	8524.3		L: Interface 59 MarcySouthS			1935.4	3048.0	0.38590		0.34961	1733.8	2741.8
							C:BUS:N.S._991		616							
							Open 137453 N.SCOT99 345 147831 GILB 345 345 1						-0.09642	-0.03209	-307.4	-399.9
							Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						-0.15078	-0.17508	-917.3	-1422.1
							Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1						-0.00329	-0.00382	120.3	109.3
							Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2						-0.03947	-0.17190	-860.4	-1356.0
							Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						0.02283	0.00000	1.6	1.6
			26613	2900.1	8541.3		L:130848 S.OWE115 115 131850 CNYOG115 115 1			22.8	-143.0	-0.05717		-0.03370	-15.2	-113.0
							C:130763 HILSD230 230 130768 WATRC230 230 1		219							
							Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.19958	0.11757	-190.6	150.4
			26635	2932.2	8573.4	*	L:130750 COOPC345 345 130753 FRASR345 345 1			-1027.3	-1703.0	-0.23045		-0.21784	-993.8	-1632.5
							C:137451 LEEDS 3 345 137455 ATHENS 345 11		6							
							Open 137451 LEEDS 3 345 137455 ATHENS 345 1						-0.07718	0.16338	433.7	912.8
			26642	2943.1	8584.3		L:130815 HINMNI15 115 135452 LOCKPORT 115 1			191.0	280.0	0.03024		0.02351	170.5	239.6
							C:130764 MEYER230 230 131122 WTHRS230 230 1		221							
							Open 130764 MEYER230 230 131122 WTHRS230 230 1						-0.08488	-0.07926	-242.2	-475.4
			26648	2951.3	8592.4		L:130767 STOLE230 230 130770 SHLDN230 230 1			251.1	540.0	0.09788		0.07903	221.3	454.6
							C:147834 NIAG 345 345 149000 ROCH 345 345 11		226							
							Open 147834 NIAG 345 345 149000 ROCH 345 345 1						0.07130	0.26434	418.2	1198.3
			26662	2961.3	8602.5		L:130764 MEYER230 230 131122 WTHRS230 230 1			-273.0	-540.0	-0.09016		-0.07926	-242.2	-476.9
							C:130754 KINTI345 345 149000 ROCH 345 345 1		205							
							Open 130754 KINTI345 345 149000 ROCH 345 345 1						-0.05915	0.18423	521.8	1067.3
			26668	2964.6	8605.7		L:130764 MEYER230 230 131122 WTHRS230 230 1			-307.8	-540.0	-0.07834		-0.07926	-242.2	-477.1
							C:BUS:WATERCURE_3451		633							
							Open 130757 WATRC345 345 200769 HOMER CY 345 1						0.06554	-0.10816	-547.8	-868.5
							Open 130757 WATRC345 345 130768 WATRC230 230 1						-0.11714	-0.06838	264.1	61.4
							Open 130755 OAKDL345 345 130757 WATRC345 345 1						0.05466	0.00000	22.7	22.7
			26686	2972.7	8613.9		L:130815 HINMNI15 115 135452 LOCKPORT 115 1			190.1	280.0	0.03023		0.02351	170.5	240.3
							C:130770 SHLDN230 230 131122 WTHRS230 230 1		228							
							Open 130770 SHLDN230 230 131122 WTHRS230 230 1						0.08488	0.07915	231.9	467.2
			26773	2996.7	8637.9		L: Interface 59 MarcySouthS			1810.7	3048.0	0.41288		0.34961	1733.8	2781.5
							C:130753 FRASR345 345 147831 GILB 345 345 1		203							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 130753 FRASR345 345 147831 GILB 345 345 1					0.36478	0.17345	210.7	730.5

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 15:19 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\abb-ph2-v2-y49-637mw.SAV  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 42461  
 First violation - -582.7 MW.

Interface-1 Interface 41 I-to-K Init.Flow= 1114.10 TDF= 0.9870

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
I_EXPORT	K_IMPORT	3000.0	1	-582.7	538.9		L: Interface 52 PJMEast-G	C:126266 DUNWODIE 92		-26.5	0.0	-0.04547		0.00000	0.2	0.2
								Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1				0.07254		-0.62685	-367.7	-2.4
			2	-582.7	538.9		L: Interface 51 G-PJMEast	C:126266 DUNWODIE 92		26.5	0.0	0.04547		0.00000	-0.2	-0.2
								Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1				-0.07254		-0.62685	-367.7	-2.4
			3	-538.2	582.9		L: Interface 52 PJMEast-G	C:BUS:SHORE_RD_3451 622		-22.7	0.0	-0.04211		0.00000	0.2	0.2
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				-0.04719		0.50089	236.9	-32.7
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				-0.04719		0.49911	236.1	-32.5
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.39149		0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				-0.39149		-0.01299	0.0	7.0
			4	-538.2	582.9		L: Interface 51 G-PJMEast	C:BUS:SHORE_RD_3451 622		22.7	0.0	0.04211		0.00000	-0.2	-0.2
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.04719		0.50089	236.9	-32.7
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				0.04719		0.49911	236.1	-32.5
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.39149		0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				0.39149		-0.01299	0.0	7.0
			5	-470.6	649.6		L: Interface 52 PJMEast-G	C:126266 DUNWODIE 363		-22.2	0.0	-0.04719		0.00000	0.2	0.2
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.04719		1.00000	474.3	3.7
			6	-470.6	649.6		L: Interface 51 G-PJMEast	C:126266 DUNWODIE 363		22.2	0.0	0.04719		0.00000	-0.2	-0.2
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.04719		1.00000	474.3	3.7
			7	170.7	1282.6		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1	Base Case		-199.7	-211.0	-0.06617				
			8	178.7	1290.4		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Base Case		474.3	653.0	1.00000				
			9	250.2	1361		L: Interface 42 K-to-I	Base Case		-1114.1	-1361.0	-0.98701				
			10	250.2	1361		L: Interface 41 I-to-K	Base Case		1114.1	1361.0	0.98701				
			11	489.3	1597		L:128835 SHORE RD 345 129293 SHORE RD 138 1	Base Case		236.9	482.0	0.50089				
			12	492.7	1600.4		L:128835 SHORE RD 345 129293 SHORE RD 138 2	Base Case		236.1	482.0	0.49911				
			13	579.5	1686.1		L:128835 SHORE RD 345 129293 SHORE RD 138 1	Base Case		346.0	770.0	0.73157		0.50089	236.9	527.2
								C:128835 SHORE RD 397								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				0.46218		0.49911	236.1	525.3
			14	581.5	1688.1		L:128835 SHORE RD 345 129293 SHORE RD 138 2	C:128835 SHORE RD 396		345.4	770.0	0.73017		0.49911	236.1	526.3
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.46129		0.50089	236.9	528.2
			15	608.1	1714.3		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Base Case		807.9	1416.0	1.00000		1.00000	474.3	1082.4
								C:128830 HMP HRBR 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1				-0.52234		0.00000	-638.6	-638.6
			16	608.9	1715.1		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Base Case		807.1	1416.0	1.00000		1.00000	474.3	1083.3
								C:128824 EGC DUM 394								
								Open 128824 EGC DUM 345 128825 EGC PAR 345 1				0.52234		0.00000	637.0	637.0
			17	608.9	1715.1		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Base Case		807.1	1416.0	1.00000		1.00000	474.3	1083.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:128824 EGC DUM	395							
			18	609.4	1715.6		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Open 128824 EGC DUM	345 128830 HMP HRBR	807.1	1416.0	0.99907	-0.52234	0.00000	-637.0	-637.0
								C:BUS:EGC_3451	623						474.3	1083.8
								Open 126299 REACBUS	345 1 NA							
								Open 126298 SPRBROOK	345 126299 REACBUS			345 BY	0.52210	-0.02597	641.4	625.6
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR			345 1	-0.00047	0.00000	-319.3	-319.3
			19	609.4	1715.6		L:126266 DUNWODIE 345 128835 SHORE RD 345 1	Open 128823 E.G.C.-2	345 128825 EGC PAR	807.1	1416.0	0.99907	-0.48633	-0.02597	4.6	-11.3
								C:SPRN-BRK-3451	778						474.3	1083.8
								Open 126298 SPRBROOK	345 126299 REACBUS			345 BY	0.52210	-0.02597	641.4	625.6
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR			345 1	-0.00047	0.00000	-319.3	-319.3
								Open 128823 E.G.C.-2	345 128825 EGC PAR			345 1	-0.48633	-0.02597	4.6	-11.3
			20	611.6	1717.8		L:126266 DUNWODIE 345 128835 SHORE RD 345 1			808.5	1416.0	0.99322		1.00000	474.3	1086.0
								C:126299 REACBUS	133							
								Open 126299 REACBUS	345 147857 DVNPT NK			345 1	0.52234	-0.01299	639.8	631.8
			21	706.3	1811.2		L: Interface 64 LIPA Export			-1919.6	-2551.0	-0.89399				
								Base Case								
			22	706.3	1811.2		L: Interface 28 LIPA Import			1919.6	2551.0	0.89399				
								Base Case								
			23	730.7	1835.3		L:128835 SHORE RD 345 129293 SHORE RD 138 1			404.0	770.0	0.50089		0.50089	236.9	602.9
								C:128830 HMP HRBR	373							
								Open 128830 HMP HRBR	345 147857 DVNPT NK			345 1	-0.26163	0.00000	-638.6	-638.6
			24	731.5	1836.1		L:128835 SHORE RD 345 129293 SHORE RD 138 1			403.6	770.0	0.50089		0.50089	236.9	603.3
								C:128824 EGC DUM	394							
								Open 128824 EGC DUM	345 128825 EGC PAR			345 1	0.26163	0.00000	637.0	637.0
			25	731.5	1836.1		L:128835 SHORE RD 345 129293 SHORE RD 138 1			403.6	770.0	0.50089		0.50089	236.9	603.3
								C:128824 EGC DUM	395							
								Open 128824 EGC DUM	345 128830 HMP HRBR			345 1	-0.26163	0.00000	-637.0	-637.0
			26	732.1	1836.7		L:128835 SHORE RD 345 129293 SHORE RD 138 1			403.6	770.0	0.50042		0.50089	236.9	603.6
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS	345 1 NA							
								Open 126298 SPRBROOK	345 126299 REACBUS			345 BY	0.26151	-0.02597	641.4	622.4
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR			345 1	-0.00024	0.00000	-319.3	-319.3
								Open 128823 E.G.C.-2	345 128825 EGC PAR			345 1	-0.24360	-0.02597	4.6	-14.5
			27	732.1	1836.7		L:128835 SHORE RD 345 129293 SHORE RD 138 1			403.6	770.0	0.50042		0.50089	236.9	603.6
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK	345 126299 REACBUS			345 BY	0.26151	-0.02597	641.4	622.4
								Open 126299 REACBUS	345 1 NA							
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR			345 1	-0.00024	0.00000	-319.3	-319.3
								Open 128823 E.G.C.-2	345 128825 EGC PAR			345 1	-0.24360	-0.02597	4.6	-14.5
			28	735.1	1839.6		L:128835 SHORE RD 345 129293 SHORE RD 138 1			404.3	770.0	0.49749		0.50089	236.9	605.1
								C:126299 REACBUS	133							
								Open 126299 REACBUS	345 147857 DVNPT NK			345 1	0.26163	-0.01299	639.8	630.2
			29	736.1	1840.7		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.6	770.0	0.49911		0.49911	236.1	603.5
								C:128830 HMP HRBR	373							
								Open 128830 HMP HRBR	345 147857 DVNPT NK			345 1	-0.26070	0.00000	-638.6	-638.6
			30	737	1841.5		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.2	770.0	0.49911		0.49911	236.1	603.9
								C:128824 EGC DUM	394							
								Open 128824 EGC DUM	345 128825 EGC PAR			345 1	0.26070	0.00000	637.0	637.0
			31	737	1841.5		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.2	770.0	0.49911		0.49911	236.1	603.9
								C:128824 EGC DUM	395							
								Open 128824 EGC DUM	345 128830 HMP HRBR			345 1	-0.26070	0.00000	-637.0	-637.0
			32	737.3	1841.8		L:126266 DUNWODIE 345 128835 SHORE RD 345 1			678.7	1416.0	1.00000		1.00000	474.3	1211.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:128842 NEPTCONV	398							
								Open 128842 NEPTCONV	345 128847 NWBRG		345 1		-0.30674	0.00000	-666.2	-666.2
			33	737.6	1842.1		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.2	770.0	0.49865		0.49911	236.1	604.2
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK	345 126299 REACBUS		345 BY	0.26059	-0.02597		641.4	622.2
								Open 126299 REACBUS	345 1 NA							
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR		345 1	-0.00024	0.00000	-319.3	-319.3	
								Open 128823 E.G.C.-2	345 128825 EGC PAR		345 1	-0.24273	-0.02597	4.6	-14.6	
			34	737.6	1842.1		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.2	770.0	0.49865		0.49911	236.1	604.2
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS	345 1 NA							
								Open 126298 SPRBROOK	345 126299 REACBUS		345 BY	0.26059	-0.02597		641.4	622.2
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR		345 1	-0.00024	0.00000	-319.3	-319.3	
								Open 128823 E.G.C.-2	345 128825 EGC PAR		345 1	-0.24273	-0.02597	4.6	-14.6	
			35	740.6	1845		L:128835 SHORE RD 345 129293 SHORE RD 138 2			402.9	770.0	0.49573		0.49911	236.1	605.7
								C:126299 REACBUS	133							
								Open 126299 REACBUS	345 147857 DVNPT NK		345 1	0.26070	-0.01299		639.8	630.1
			36	760.4	1864.6		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1			82.7	118.0	0.04639				
								Base Case								
			37	781.2	1885.1		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			100.1	379.0	0.35707		0.35707	-48.2	230.7
								C:128830 HMP HRBR	373							
								Open 128830 HMP HRBR	345 147857 DVNPT NK		345 1	-0.23221	0.00000	-638.6	-638.6	
			38	782.2	1886.2		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			99.7	379.0	0.35707		0.35707	-48.2	231.1
								C:128824 EGC DUM	394							
								Open 128824 EGC DUM	345 128825 EGC PAR		345 1	0.23221	0.00000	637.0	637.0	
			39	782.2	1886.2		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			99.7	379.0	0.35707		0.35707	-48.2	231.1
								C:128824 EGC DUM	395							
								Open 128824 EGC DUM	345 128830 HMP HRBR		345 1	-0.23221	0.00000	-637.0	-637.0	
			40	782.7	1886.7		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			99.7	379.0	0.35683		0.35707	-48.2	231.3
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK	345 126299 REACBUS		345 BY	0.23183	-0.02597		641.4	621.0
								Open 126299 REACBUS	345 1 NA							
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR		345 1	-0.00076	0.00000	-319.3	-319.3	
								Open 128823 E.G.C.-2	345 128825 EGC PAR		345 1	-0.22296	-0.02597	4.6	-15.8	
			41	782.7	1886.7		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			99.7	379.0	0.35683		0.35707	-48.2	231.3
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS	345 1 NA							
								Open 126298 SPRBROOK	345 126299 REACBUS		345 BY	0.23183	-0.02597		641.4	621.0
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR		345 1	-0.00076	0.00000	-319.3	-319.3	
								Open 128823 E.G.C.-2	345 128825 EGC PAR		345 1	-0.22296	-0.02597	4.6	-15.8	
			42	787.1	1891		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			100.3	379.0	0.35405		0.35707	-48.2	232.8
								C:126299 REACBUS	133							
								Open 126299 REACBUS	345 147857 DVNPT NK		345 1	0.23221	-0.01299		639.8	629.5
			43	805.1	1908.7		L:129270 E.G.C. 138 129288 ROSLYN 138 1			-51.5	-339.0	-0.35707		-0.35707	96.8	-190.7
								C:128830 HMP HRBR	373							
								Open 128830 HMP HRBR	345 147857 DVNPT NK		345 1	0.23221	0.00000	-638.6	-638.6	
			44	806.1	1909.8		L:129270 E.G.C. 138 129288 ROSLYN 138 1			-51.2	-339.0	-0.35707		-0.35707	96.8	-191.1
								C:128824 EGC DUM	394							
								Open 128824 EGC DUM	345 128825 EGC PAR		345 1	-0.23221	0.00000	637.0	637.0	
			45	806.1	1909.8		L:129270 E.G.C. 138 129288 ROSLYN 138 1			-51.2	-339.0	-0.35707		-0.35707	96.8	-191.1
								C:128824 EGC DUM	395							
								Open 128824 EGC DUM	345 128830 HMP HRBR		345 1	0.23221	0.00000	-637.0	-637.0	
			46	806.7	1910.3		L:129270 E.G.C. 138 129288 ROSLYN 138 1			-51.1	-339.0	-0.35683		-0.35707	96.8	-191.3
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS	345 1 NA							



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			68	877.5	1980.2		L:129270 E.G.C. 138 129288 ROSLYN 138 1	Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.15310	0.00000	-666.2	-666.2
										89.4	-339.0	-0.48821		-0.35707	96.8	-216.5
							C:129283 GLNWD SO 428									
							Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					0.33210		-0.39490	-22.2	-368.7
			107	930.3	2032.3		L:129265 CARLE PL 138 129283 GLNWD SO 138 1			72.8	-379.0	-0.48560		-0.34851	60.5	-263.7
							C:129282 GLNWD NO 427									
							Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					0.33014		-0.41524	37.2	-349.1
			109	931.3	2033.3		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			-69.9	379.0	0.48203		0.35707	-48.2	284.3
							C:129265 CARLE PL 417									
							Open 129265 CARLE PL 138 129283 GLNWD SO 138 1			44.4	379.0	0.35707	-0.35858	-0.34851	60.5	-264.1
			122	937.1	2039		L:129281 GLNWD GT 138 129288 ROSLYN 138 1							0.35707	-48.2	286.4
							C:128842 NEPTCONV 398									
							Open 128842 NEPTCONV 345 128847 NWBRG 345 1						-0.13901	0.00000	-666.2	-666.2
			1732	946.3	2048.2		L:128835 SHORE RD 345 129293 SHORE RD 138 1			296.0	770.0	0.50089		0.50089	236.9	710.9
							C:128822 E.G.C.-1 390									
							Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1						-0.18497	0.00000	-319.3	-319.3
			1733	946.4	2048.2	*	L:128835 SHORE RD 345 129293 SHORE RD 138 1			296.0	770.0	0.50089		0.50089	236.9	710.9
							C:128822 E.G.C.-1 391									
							Open 128822 E.G.C.-1 345 129270 E.G.C. 138 1						0.18497	0.00000	319.3	319.3
			1749	948.6	2050.4		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-40.3	-379.0	-0.35707		-0.35707	108.0	-230.7
							C:128830 HMP HRBR 373									
							Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1						0.23221	0.00000	-638.6	-638.6
			1753	949	2050.8		L:129270 E.G.C. 138 129288 ROSLYN 138 1			118.5	-339.0	-0.48203		-0.35707	96.8	-242.1
							C:129265 CARLE PL 417									
							Open 129265 CARLE PL 138 129283 GLNWD SO 138 1						0.35858	-0.34851	60.5	-270.3
			1763	949.7	2051.4		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-39.9	-379.0	-0.35707		-0.35707	108.0	-231.1
							C:128824 EGC DUM 394									
							Open 128824 EGC DUM 345 128825 EGC PAR 345 1						-0.23221	0.00000	637.0	637.0
			1764	949.7	2051.4		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-39.9	-379.0	-0.35707		-0.35707	108.0	-231.1
							C:128824 EGC DUM 395									
							Open 128824 EGC DUM 345 128830 HMP HRBR 345 1						0.23221	0.00000	-637.0	-637.0
			1768	950.3	2052		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-39.9	-379.0	-0.35683		-0.35707	108.0	-231.3
							C:SPRN-BRK-3451 778									
							Open 126298 SPRBROOK 345 126299 REACBUS 345 BY						-0.23183	-0.02597	641.4	616.7
							Open 126299 REACBUS 345 1 NA									
							Open 128830 HMP HRBR 345 1 NA									
							Open 128824 EGC DUM 345 1 NA									
							Open 128824 EGC DUM 345 1 NA									
							Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1						0.00076	0.00000	-319.3	-319.3
							Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1						0.22296	-0.02597	4.6	-20.1
			1769	950.3	2052		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-39.9	-379.0	-0.35683		-0.35707	108.0	-231.3
							C:BUS:EGC_3451 623									
							Open 126299 REACBUS 345 1 NA									
							Open 126298 SPRBROOK 345 126299 REACBUS 345 BY						-0.23183	-0.02597	641.4	616.7
							Open 128830 HMP HRBR 345 1 NA									
							Open 128824 EGC DUM 345 1 NA									
							Open 128824 EGC DUM 345 1 NA									
							Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1						0.00076	0.00000	-319.3	-319.3
							Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1						0.22296	-0.02597	4.6	-20.1
			1780	951.8	2053.5		L:128835 SHORE RD 345 129293 SHORE RD 138 2			294.9	770.0	0.49911		0.49911	236.1	711.2
							C:128822 E.G.C.-1 390									
							Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1						-0.18431	0.00000	-319.3	-319.3
			1781	951.8	2053.6	*	L:128835 SHORE RD 345 129293 SHORE RD 138 2			294.9	770.0	0.49911		0.49911	236.1	711.2
							C:128822 E.G.C.-1 391									
							Open 128822 E.G.C.-1 345 129270 E.G.C. 138 1						0.18431	0.00000	319.3	319.3
			1789	955.9	2057.6		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-40.5	-379.0	-0.35405		-0.35707	108.0	-233.3
							C:126299 REACBUS 133									
							Open 126299 REACBUS 345 147857 DVNPT NK 345 1						-0.23221	-0.01299	639.8	627.3
			1802	961	2062.7		L:129270 E.G.C. 138 129288 ROSLYN 138 1			4.2	-339.0	-0.35707		-0.35707	96.8	-246.4
							C:128842 NEPTCONV 398									
							Open 128842 NEPTCONV 345 128847 NWBRG 345 1						0.13901	0.00000	-666.2	-666.2
			1805	962.4	2064		L:129265 CARLE PL 138 129283 GLNWD SO 138 1			77.5	-379.0	-0.47432		-0.34851	60.5	-274.9
							C:129281 GLNWD GT 426									
							Open 129281 GLNWD GT 138 129288 ROSLYN 138 1						-0.35236	0.35707	-48.2	295.4
			1813	966.8	2068.4		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			-48.2	297.0	0.35707				
							Base Case									
			1826	982.4	2083.8		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			100.6	-379.0	-0.48821		-0.35707	108.0	-242.8





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			5351	1110.7	2210.4	*	L:129265 CARLE PL 138 129270 E.G.C. 138 1	Open 128842 NEPTCONV 345 128847 NWBRG 345 1					0.13901	0.00000	-666.2	-666.2
								C:129281 GLNWD GT 425							0.34851	-149.8
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1					-0.35236	-0.35707	108.0	-288.6
			5366	1121.7	2221.3	*	L:129281 GLNWD GT 138 129282 GLNWD NO 138 1				161.7	-379.0	-0.48203	-0.35707	108.0	-292.5
								C:129265 CARLE PL 416								
								Open 129265 CARLE PL 138 129270 E.G.C. 138 1					-0.35858	0.34851	-149.8	241.2
			5370	1127.7	2227.1		L:129283 GLNWD SO 138 129293 SHORE RD 138 1						-0.55716	-0.39490	-22.2	-467.5
								C:129282 GLNWD NO 427								
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					0.39076	-0.41524	37.2	-431.1
			5373	1134.3	2233.6		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1									
								Base Case								
			5387	1141	2240.3		L:128822 E.G.C.-1 345 128825 EGC PAR 345 1								0.00000	-319.3
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.22021	1.00000	474.3	1615.4
			5388	1141.1	2240.4		L:128822 E.G.C.-1 345 129270 E.G.C. 138 1								0.00000	319.3
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					0.22021	1.00000	474.3	1615.4
			5392	1143.3	2242.5		L:128822 E.G.C.-1 345 128825 EGC PAR 345 1								0.00000	-319.3
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1					-0.22021	0.50089	236.9	809.6
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2					-0.22021	0.49911	236.1	806.7
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.01540	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1					-0.01299	0.0	-14.8	
			5393	1143.3	2242.6		L:128822 E.G.C.-1 345 129270 E.G.C. 138 1								0.00000	319.3
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1					0.22021	0.50089	236.9	809.6
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2					0.22021	0.49911	236.1	806.7
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					0.01540	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1					-0.01299	0.0	-14.8	
								Open 126266 DUNWODIE 345 1					0.01540	-0.01299	0.0	-14.8
			5404	1156	2255.1		L:129283 GLNWD SO 138 129293 SHORE RD 138 1								-0.39490	-22.2
								C:128830 HMP HRBR 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1					0.24625	0.00000	-638.6	-638.6
			5406	1157	2256.1		L:129283 GLNWD SO 138 129293 SHORE RD 138 1								-0.39490	-22.2
								C:128824 EGC DUM 394								
								Open 128824 EGC DUM 345 128825 EGC PAR 345 1					-0.24625	0.00000	637.0	637.0
			5407	1157	2256.1		L:129283 GLNWD SO 138 129293 SHORE RD 138 1								-0.39490	-22.2
								C:128824 EGC DUM 395								
								Open 128824 EGC DUM 345 128830 HMP HRBR 345 1					0.24625	0.00000	-637.0	-637.0
			5409	1157.8	2256.8		L:129283 GLNWD SO 138 129293 SHORE RD 138 1								-0.39490	-22.2
								C:SPRN-BRK-3451 778								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					-0.24591	-0.02597	641.4	611.3
								Open 126299 REACBUS 345 1 NA								
								Open 128830 HMP HRBR 345 1 NA								
								Open 128824 EGC DUM 345 1 NA								
								Open 128824 EGC DUM 345 1 NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					0.00066	0.00000	-319.3	-319.3
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.23617	-0.02597	4.6	-25.5
			5410	1157.8	2256.8		L:129283 GLNWD SO 138 129293 SHORE RD 138 1								-0.39490	-22.2
								C:BUS:EGC_3451 623								
								Open 126299 REACBUS 345 1 NA								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					-0.24591	-0.02597	641.4	611.3
								Open 128830 HMP HRBR 345 1 NA								
								Open 128824 EGC DUM 345 1 NA								
								Open 128824 EGC DUM 345 1 NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					0.00066	0.00000	-319.3	-319.3
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.23617	-0.02597	4.6	-25.5
			5411	1158.2	2257.3		L:129282 GLNWD NO 138 129293 SHORE RD 138 1								-0.41524	37.2
								C:129283 GLNWD SO 428								
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					0.40076	-0.39490	-22.2	-479.6
			5420	1162.3	2261.3		L:128823 E.G.C.-2 345 128825 EGC PAR 345 1								0.00000	-317.5
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.21840	1.00000	474.3	1636.7
			5421	1163.4	2262.3		L:128823 E.G.C.-2 345 129271 E.G.C.-2 138 1								0.00000	317.3
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					0.21840	1.00000	474.3	1637.7
			5423	1164.6	2263.6		L:128823 E.G.C.-2 345 128825 EGC PAR 345 1								0.00000	-317.5
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.21821	0.00000	-317.5	-317.5



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			8865	1227.8	2325.9		L:129310 NEWBRGE 138 129361 RULND RD 138 2			78.2	263.0	0.15055				
								Base Case								
			8878	1230.6	2328.7	*	L:129281 GLNWD SO 138 129293 SHORE RD 138 1			19.4	-636.0	-0.53262		-0.39490	-22.2	-508.2
								C:129281 GLNWD GT 425								
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1				0.38569		-0.35707	108.0	-331.4
			8896	1234.9	2333		L:129282 GLNWD NO 138 129293 SHORE RD 138 1			-127.3	-636.0	-0.41190		-0.41524	37.2	-475.6
								C:126299 REACBUS 133								
								Open 126299 REACBUS 345 147857 DVNPT NK 345 1				-0.25712		-0.01299	639.8	623.7
			8921	1243.2	2341.1		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			68.2	165.0	0.07787		0.05817	70.9	143.2
								C:129281 GLNWD GT 426								
								Open 129281 GLNWD GT 138 129288 ROSLYN 138 1				0.05516		0.35707	-48.2	395.7
			8943	1252.4	2350.2		L:129310 NEWBRGE 138 129361 RULND RD 138 2			99.8	339.0	0.19101		0.15055	78.2	266.7
								C:129310 NEWBRGE 435								
								Open 129310 NEWBRGE 138 129361 RULND RD 138 3				0.28972		0.13965	74.6	249.5
			8944	1252.4	2350.2		L:129310 NEWBRGE 138 129361 RULND RD 138 1			99.8	339.0	0.19101		0.15055	78.2	266.7
								C:129310 NEWBRGE 435								
								Open 129310 NEWBRGE 138 129361 RULND RD 138 3				0.28972		0.13965	74.6	249.5
			8964	1257.2	2354.9		L:129282 GLNWD NO 138 129293 SHORE RD 138 1			61.4	-636.0	-0.55470		-0.41524	37.2	-484.9
								C:129265 CARLE PL 417								
								Open 129265 CARLE PL 138 129283 GLNWD SO 138 1				0.40018		-0.34851	60.5	-377.6
			10546	1262.9	2360.6		L:128824 EGC DUM 345 128825 EGC PAR 345 1			845.1	1399.0	0.43862		0.00000	637.0	637.0
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.43862		1.00000	474.3	1737.2
			10547	1262.9	2360.6		L:128824 EGC DUM 345 128830 HMP HRBR 345 1			-845.1	-1399.0	-0.43862		0.00000	-637.0	-637.0
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.43862		1.00000	474.3	1737.2
			10553	1263.2	2360.9		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			82.9	165.0	0.06495		0.05817	70.9	144.3
								C:129283 GLNWD SO 525								
								Open 129283 GLNWD SO 138 129588 GLNWD SO 69.0 1				0.14614		0.04639	82.7	141.3
			10572	1265.3	2362.9		L:128824 EGC DUM 345 128825 EGC PAR 345 1			844.5	1399.0	0.43822		0.00000	637.0	637.0
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.43862		0.50089	236.9	870.7
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				0.43862		0.49911	236.1	867.6
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.03071		0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				0.03071		-0.01299	0.0	-16.4
			10573	1265.3	2362.9		L:128824 EGC DUM 345 128830 HMP HRBR 345 1			-844.5	-1399.0	-0.43822		0.00000	-637.0	-637.0
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				-0.43862		0.50089	236.9	870.7
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				-0.43862		0.49911	236.1	867.6
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.03071		0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				-0.03071		-0.01299	0.0	-16.4
			10634	1277.5	2375		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			65.5	165.0	0.07787		0.05817	70.9	145.2
								C:129270 E.G.C. 419								
								Open 129270 E.G.C. 138 129288 ROSLYN 138 1				-0.05516		-0.35707	96.8	-359.4
			10645	1281	2378.4		L:129361 RULND RD 138 129421 HOLBROOK 138 1			122.1	678.0	0.43398		0.43398	-9.9	546.0
								C:129355 PILGRIM 456								
								Open 129355 PILGRIM 138 129356 PILGRM P 138 1				0.68548		0.00000	192.5	192.5
			10646	1281	2378.4		L:129361 RULND RD 138 129421 HOLBROOK 138 1			122.1	678.0	0.43398		0.43398	-9.9	546.0
								C:129337 HAUPAGUE 444								
								Open 129337 HAUPAGUE 138 129356 PILGRM P 138 1				-0.68548		0.00000	-192.5	-192.5
			10655	1285.5	2382.9		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			64.9	165.0	0.07787		0.05817	70.9	145.6
								C:129281 GLNWD GT 425								
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1				-0.05516		-0.35707	108.0	-351.0
			10658	1286.4	2383.8		L:129282 GLNWD NO 138 129293 SHORE RD 138 1			37.2	-497.0	-0.41524				
								Base Case								
			10669	1289.5	2386.9		L:126455 JAMAICA 138 129249 L SUCSPH 138 1			-5.3	428.0	0.33605		0.00000	-164.7	-164.7
								C:126266 DUNWODIE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				0.33605		1.00000	474.3	1763.8
			10673	1290.6	2387.9		L:126455 JAMAICA 138 129249 L SUCSPH 138 1			-5.8	428.0	0.33611		0.00000	-164.7	-164.7
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.33605		0.50089	236.9	883.4
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2				0.33605		0.49911	236.1	880.2
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1				-0.00490		0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1				-0.00490		-0.01299	0.0	-16.8
			10678	1292.7	2390		L: Interface 11 DUN-SOUTH OP			5034.1	6310.0	0.98701				
								Base Case								
			10679	1292.7	2390		L: Interface 42 K-to-I			-1539.1	-2815.0	-0.98701		-0.98701	-1114.1	-2390.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:128842 NEPTCONV	398							
			10680	1292.7	2390		L: Interface 41 I-to-K	Open 128842 NEPTCONV	345 128847 NWBRG		345 1		0.63788	0.00000	-666.2	-666.2
										1539.1	2815.0	0.98701		0.98701	1114.1	2390.0
								C:128842 NEPTCONV	398							
			10682	1295	2392.3		L:126299 REACBUS 345 147857 DVNPT NK 345 1	Open 128842 NEPTCONV	345 128847 NWBRG		345 1	-0.63788	0.00000	-666.2	-666.2	
										847.8	1399.0	0.42563		-0.01299	639.8	622.9
								C:126266 DUNWODIE	363							
			10683	1297.5	2394.7		L:126299 REACBUS 345 147857 DVNPT NK 345 1	Open 126266 DUNWODIE	345 128835 SHORE RD		345 1	0.43862	1.00000	474.3	1769.3	
										847.3	1399.0	0.42523		-0.01299	639.8	622.9
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1	0.43862	0.50089	236.9	886.8	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2	0.43862	0.49911	236.1	883.7	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1	0.03071	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1	0.03071	-0.01299	0.0	-16.9	
			10689	1311.9	2409		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			-15.8	235.0	0.19114				
								Base Case								
			10697	1321.6	2418.5		L:129282 GLNWD NO 138 129293 SHORE RD 138 1			97.1	-636.0	-0.55470		-0.41524	37.2	-511.6
								C:129265 CARLE PL	416							
			10700	1322	2418.9		L:129361 RULND RD 138 129421 HOLBROOK 138 1	Open 129265 CARLE PL	138 129270 E.G.C.		138 1	-0.40018	0.34851	-149.8	310.8	
										161.6	678.0	0.39065		0.43398	-9.9	563.8
								C:129076 HOLTS1-5	510							
								Open 129076 HOLTS1-5	13.8 129427 HOLTS GT		138 1	-0.79970	0.05418	-214.4	-142.8	
			10712	1330.1	2426.9		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			68.3	165.0	0.07267		0.05817	70.9	148.2
								C:129265 CARLE PL	417							
								Open 129265 CARLE PL	138 129283 GLNWD SO		138 1	-0.04160	-0.34851	60.5	-403.0	
			10733	1344.9	2441.5		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			86.8	165.0	0.05817		0.05817	70.9	149.1
								C:128830 HMP HRBR	373							
			10734	1345.6	2442.2		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1	Open 128830 HMP HRBR	345 147857 DVNPT NK		345 1	-0.02491	0.00000	-638.6	-638.6	
										86.7	165.0	0.05817		0.05817	70.9	149.1
								C:128824 EGC DUM	394							
								Open 128824 EGC DUM	345 128825 EGC PAR		345 1	0.02491	0.00000	637.0	637.0	
			10735	1345.6	2442.2		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			86.7	165.0	0.05817		0.05817	70.9	149.1
								C:128824 EGC DUM	395							
								Open 128824 EGC DUM	345 128830 HMP HRBR		345 1	-0.02491	0.00000	-637.0	-637.0	
			10738	1346.3	2443 *		L:129282 GLNWD NO 138 129587 GLNWD NO 69.0 1			86.7	165.0	0.05814		0.05817	70.9	149.2
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK	345 126299 REACBUS		345 BY	0.02495	-0.02597	641.4	606.4	
								Open 126299 REACBUS	345 1 NA							
								Open 128830 HMP HRBR	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128824 EGC DUM	345 1 NA							
								Open 128822 E.G.C.-1	345 128825 EGC PAR		345 1	0.00009	0.00000	-319.3	-319.3	
								Open 128823 E.G.C.-2	345 128825 EGC PAR		345 1	-0.02363	-0.02597	4.6	-30.4	
			10751	1354.5	2451		L:129310 NEWBRGE 138 129361 RULND RD 138 1			101.9	339.0	0.17504		0.15055	78.2	282.1
								C:129305 LCST GRV	430							
								Open 129305 LCST GRV	138 129310 NEWBRGE		138 1	-0.17931	-0.13659	-132.5	-317.5	
			10752	1354.5	2451		L:129310 NEWBRGE 138 129361 RULND RD 138 2			101.9	339.0	0.17504		0.15055	78.2	282.1
								C:129305 LCST GRV	430							
								Open 129305 LCST GRV	138 129310 NEWBRGE		138 1	-0.17931	-0.13659	-132.5	-317.5	
			10754	1357	2453.5		L:129248 L SUCS 138 129249 L SUCSPH 138 1			6.0	-450.0	-0.33605		0.00000	165.4	165.4
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1	-0.33605	1.00000	474.3	1831.4	
			10755	1357.1	2453.6		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1			91.9	165.0	0.05389		0.04639	82.7	145.7
								C:129282 GLNWD NO	524							
								Open 129282 GLNWD NO	138 129587 GLNWD NO		69.0 1	0.12894	0.05817	70.9	149.8	
			10758	1358.1	2454.6		L:129248 L SUCS 138 129249 L SUCSPH 138 1			6.5	-450.0	-0.33611		0.00000	165.4	165.4
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1	-0.33605	0.50089	236.9	917.2	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2	-0.33605	0.49911	236.1	913.9	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1	0.00490	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1	0.00490	-0.01299	0.0	-17.6	
			12365	1366.8	2463.1		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2			-15.7	235.0	0.18342				
								Base Case								
			12403	1370.8	2467.1 *		L:129282 GLNWD NO 138 129293 SHORE RD 138 1			-66.8	-636.0	-0.41524		-0.41524	37.2	-532.1
								C:128842 NEPTCONV	398							
								Open 128842 NEPTCONV	345 128847 NWBRG		345 1	0.15601	0.00000	-666.2	-666.2	
			12420	1373.5	2469.7		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1			80.0	165.0	0.06186		0.04639	82.7	146.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:129265 CARLE PL	417								
			12440	1378.3	2474.5		L:129361 RULND RD 138 129421 HOLBROOK 138 1	Open 129265 CARLE PL	138 129283 GLNWD SO	138 1	117.3	678.0	0.40681	-0.04438	-0.34851	60.5	-418.2
								C:129093 PTJFEFG4	512								
								Open 129093 PTJFEFG4	20.0 129449 PT JEFF2	138 1	169.0	678.0	0.36773	-0.80628	0.03370	-157.8	-111.3
			12460	1384.2	2480.4		L:129361 RULND RD 138 129421 HOLBROOK 138 1	C:129421 HOLBROOK	475								
								Open 129421 HOLBROOK	138 129443 NYPAHOLT	138 1	74.2	678.0	0.43398	-0.40537	0.16342	-441.3	-215.0
			12471	1391.3	2487.3		L:129361 RULND RD 138 129421 HOLBROOK 138 1	C:129337 HAUPAGUE	445								
								Open 129337 HAUPAGUE	138 129393 C.ISLIP	138 1	20.5	678.0	0.46529	0.68548	0.00000	122.7	122.7
			14146	1413.2	2508.9		L:129361 RULND RD 138 129421 HOLBROOK 138 1	C:129305 LCST GRV	430								
								Open 129305 LCST GRV	138 129310 NEWBRGE	138 1	110.1	678.0	0.39977	-0.22924	-0.13659	-132.5	-325.5
			14170	1420.6	2516.2		L:129361 RULND RD 138 129421 HOLBROOK 138 1	C:129418 CAITHNESS1	470								
								Open 129418 CAITHNESS1	138 129461 SILLS RD2	138 1	110.1	678.0	0.39977	-0.80911	0.04228	-148.3	-88.3
			14171	1420.6	2516.2	*	L:129361 RULND RD 138 129421 HOLBROOK 138 1	C:129071 CAITH-GT	540								
								Open 129071 CAITH-GT	16.5 129418 CAITHNESS1	138 1	76.1	165.0	0.06186	0.43398	-9.9	606.6	
			14200	1437.5	2533		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:129265 CARLE PL	416								
								Open 129265 CARLE PL	138 129270 E.G.C.	138 1	81.1	165.0	0.05829	0.04438	0.34851	-149.8	351.2
			14201	1439	2534.4		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:129281 GLNWD GT	426								
								Open 129281 GLNWD GT	138 129288 ROSLYN	138 1	86.5	339.0	0.17504	0.03333	0.35707	-48.2	465.6
			14202	1442.7	2538		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:129305 LCST GRV	431								
								Open 129305 LCST GRV	138 129315 SYOSSET	138 1	86.5	339.0	0.17504	0.17931	0.13659	46.4	243.4
			14203	1442.7	2538		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:129305 LCST GRV	431								
								Open 129305 LCST GRV	138 129315 SYOSSET	138 1	79.5	165.0	0.05829	0.17931	0.13659	46.4	243.4
			14214	1466.7	2561.8		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:129270 E.G.C.	419								
								Open 129270 E.G.C.	138 129288 ROSLYN	138 1	79.1	165.0	0.05829	-0.03333	-0.35707	96.8	-426.9
			14219	1473.2	2568.1		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:129281 GLNWD GT	425								
								Open 129281 GLNWD GT	138 129282 GLNWD NO	138 1	199.0	288.0	0.06038	-0.03333	-0.35707	108.0	-418.0
			14222	1474.5	2569.5		L:129244 GRT NECK 138 129248 L SUCS 138 1	C:129248 L SUCS	415								
								Open 129248 L SUCS	138 129293 SHORE RD	138 2	198.3	288.0	0.06023	-0.55024	-0.04310	-117.9	-181.4
			14239	1489.1	2583.9		L:129244 GRT NECK 138 129248 L SUCS 138 1	C:129248 L SUCS	414								
								Open 129248 L SUCS	138 129293 SHORE RD	138 1	141.4	339.0	0.13251	-0.54932	-0.04289	-116.9	-180.7
			14244	1491.5	2586.3		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:128880 SHMHVDCL	401								
								Open 128880 SHMHVDCL	192 129459 SHOREHAM	138 1	141.4	339.0	0.13251	-0.19398	0.09302	-325.8	-187.1
			14245	1491.5	2586.3		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:128880 SHMHVDCL	401								
								Open 128880 SHMHVDCL	192 129459 SHOREHAM	138 1	89.6	165.0	0.05055	-0.19398	0.09302	-325.8	-187.1
			14246	1491.6	2586.4		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:129248 L SUCS	521								
								Open 129248 L SUCS	138 129543 LKE SCSS	69.0 1	95.3	165.0	0.04639	0.06484	0.06407	106.1	201.7
			14255	1502.2	2596.7		L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:128830 HMP HRBR	373								
								Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1	95.3	165.0	0.04639	-0.01971	0.00000	-638.6	-638.6
			14256	1502.8	2597.4	*	L:129283 GLNWD SO 138 129588 GLNWD SO 69.0 1	C:128824 EGC DUM	394								
								Open 128824 EGC DUM	345 128825 EGC PAR	345 1	-1.9	253.0	0.16959	0.01971	0.00000	637.0	637.0
			14258	1503.1	2597.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 3	Base Case									
								Base Case			74.6	285.0	0.13965				
			14265	1506.4	2600.9		L:129310 NEWBRGE 138 129361 RULND RD 138 3	Base Case									
								Base Case			107.2	339.0	0.15055				
			14307	1540	2634.1		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:SIN:2501	678								
								Open 100508 SANDB115	115 100509 SB RCTOR	115 2				0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			14308	1540	2634.1		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:SIN:2501 678		107.2	339.0	0.15055		0.15055	78.2	310.0
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00000 0.00000 -0.1 -0.1								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			14320	1544	2638.1		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:GEN:MILLST 31 573		106.5	339.0	0.15055		0.15055	78.2	310.6
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			14321	1544	2638.1		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:GEN:MLS3&OMS1 575		106.5	339.0	0.15055		0.15055	78.2	310.6
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00000 0.00000 -0.1 -0.1								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			14322	1544	2638.1		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:GEN:MLS3&OMS1 575		106.5	339.0	0.15055		0.15055	78.2	310.6
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00000 0.00000 -0.1 -0.1								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			14323	1544	2638.1		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:GEN:MILLST 31 573		106.5	339.0	0.15055		0.15055	78.2	310.6
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			15967	1557.8	2651.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 1	C:129270 E.G.C. 418		-75.0	491.0	0.36332		0.19114	-15.8	282.0
								Open 129270 E.G.C. 138 129271 E.G.C.-2 138 1 0.45706 0.37672 -129.6 457.3								
			15977	1558.8	2652.7		L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:129310 NEWBRGE 432		73.0	339.0	0.17061		0.15055	78.2	312.8
								Open 129310 NEWBRGE 138 129324 BETHPAGE 138 1 0.19183 0.10458 -26.7 136.4								
			15978	1558.8	2652.7		L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:129310 NEWBRGE 432		73.0	339.0	0.17061		0.15055	78.2	312.8
								Open 129310 NEWBRGE 138 129324 BETHPAGE 138 1 0.19183 0.10458 -26.7 136.4								
			15979	1558.9	2652.7	*	L:129310 NEWBRGE 138 129361 RULND RD 138 1	C:129321 BAGATELLE 438		73.0	339.0	0.17061		0.15055	78.2	312.8
								Open 129321 BAGATELLE 138 129324 BETHPAGE 138 1 -0.19183 -0.10458 26.7 -136.3								
			15980	1558.9	2652.7	*	L:129310 NEWBRGE 138 129361 RULND RD 138 2	C:129321 BAGATELLE 438		73.0	339.0	0.17061		0.15055	78.2	312.8
								Open 129321 BAGATELLE 138 129324 BETHPAGE 138 1 -0.19183 -0.10458 26.7 -136.3								
			17729	1593.2	2686.6		L: Interface 42 K-to-I	C:129027 NRTPTG4 508		-1301.1	-2815.0	-0.95022		-0.98701	-1114.1	-2686.6
								Open 129027 NRTPTG4 22.0 129342 NRTHPRT2 138 1 0.58307 0.06310 -320.7 -220.2								
			17730	1593.2	2686.6		L: Interface 41 I-to-K	C:129027 NRTPTG4 508		1301.1	2815.0	0.95022		0.98701	1114.1	2686.6
								Open 129027 NRTPTG4 22.0 129342 NRTHPRT2 138 1 -0.58307 0.06310 -320.7 -220.2								
			17732	1593.2	2686.6		L: Interface 42 K-to-I	C:129026 NRTPTG3 507		-1301.1	-2815.0	-0.95022		-0.98701	-1114.1	-2686.6
								Open 129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1 -0.58307 0.06310 -320.7 -220.2								
			17733	1593.2	2686.6		L: Interface 41 I-to-K	C:129026 NRTPTG3 507		1301.1	2815.0	0.95022		0.98701	1114.1	2686.6
								Open 129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1 -0.58307 0.06310 -320.7 -220.2								
			17776	1600.1	2693.4		L: Interface 42 K-to-I	C:129025 NRTPTG2 506		-1291.5	-2815.0	-0.95213		-0.98701	-1114.1	-2693.4
								Open 129025 NRTPTG2 22.0 129341 NRTHPRT1 138 1 0.55279 0.06310 -320.9 -219.9								
			17777	1600.1	2693.4		L: Interface 41 I-to-K	C:129025 NRTPTG2 506		1291.5	2815.0	0.95213		0.98701	1114.1	2693.4
								Open 129025 NRTPTG2 22.0 129341 NRTHPRT1 138 1 -0.55279 0.06310 -320.9 -219.9								
			17778	1600.2	2693.5		L: Interface 41 I-to-K	C:129024 NRTPTG1 505		1291.4	2815.0	0.95213		0.98701	1114.1	2693.5
								Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1 -0.55282 0.06310 -320.7 -219.7								
			17779	1600.2	2693.5		L: Interface 42 K-to-I	C:129024 NRTPTG1 505		-1291.4	-2815.0	-0.95213		-0.98701	-1114.1	-2693.5
								Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1 0.55282 0.06310 -320.7 -219.7								
			17780	1600.4	2693.7		L: Interface 41 I-to-K	C:SIN:2501 678		1235.4	2815.0	0.98701		0.98701	1114.1	2693.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 -0.00002 0.00000 -0.1 -0.1								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			17781	1600.4	2693.7		L: Interface 42 K-to-I	C:SIN:2501 678		-1235.4	-2815.0	-0.98701		-0.98701	-1114.1	-2693.7
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2 0.00002 0.00000 -0.1 -0.1								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			17797	1602.7	2696		L: Interface 42 K-to-I	C:GEN:MLS3&OMS1 575		-1233.1	-2815.0	-0.98701		-0.98701	-1114.1	-2696.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Open 100508 SANDB115	115	100509 SB	RCTOR	115	2	0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	dispatch			
			17798	1602.7	2696		L: Interface 41 I-to-K				1233.1	2815.0	0.98701		0.98701	1114.1	2696.0
								C:GEN:MILLST 31		573							
								Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	dispatch			
			17799	1602.7	2696		L: Interface 42 K-to-I				-1233.1	-2815.0	-0.98701		-0.98701	-1114.1	-2696.0
								C:GEN:MILLST 31		573							
								Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	dispatch			
			17800	1602.7	2696		L: Interface 41 I-to-K				1233.1	2815.0	0.98701		0.98701	1114.1	2696.0
								C:GEN:MLS3&OMS1		575							
								Open 100508 SANDB115	115	100509 SB	RCTOR	115	2	-0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	dispatch			
			17929	1616.6	2709.7		L: Interface 41 I-to-K				1309.7	2815.0	0.93117		0.98701	1114.1	2709.7
								C:128880 SHMHVDCL		401							
								Open 128880 SHMHVDCL	192	129459 SHOREHAM		138	1	-0.60032	0.09302	-325.8	-175.4
			17930	1616.6	2709.7		L: Interface 42 K-to-I				-1309.7	-2815.0	-0.93117		-0.98701	-1114.1	-2709.7
								C:128880 SHMHVDCL		401							
								Open 128880 SHMHVDCL	192	129459 SHOREHAM		138	1	0.60032	0.09302	-325.8	-175.4
			21226	1638.9	2731.7	*	L: Interface 41 I-to-K				1197.4	2815.0	0.98701		0.98701	1114.1	2731.7
								C:GEN:SEAB&OMS1		576							
								Open 100508 SANDB115	115	100509 SB	RCTOR	115	2	-0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1				25.0	1318.0	dispatch			
			21228	1638.9	2731.7	*	L: Interface 42 K-to-I				-1197.4	-2815.0	-0.98701		-0.98701	-1114.1	-2731.7
								C:GEN:SEAB&OMS1		576							
								Open 100508 SANDB115	115	100509 SB	RCTOR	115	2	0.00002	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1				25.0	1318.0	dispatch			
			21266	1649.3	2742		L:126298 SPRBROOK 345 126299 REACBUS 345 BY				849.4	1530.0	0.41264		-0.02597	641.4	598.5
								C:126266 DUNWODIE		363							
								Open 126266 DUNWODIE	345	128835 SHORE RD		345	1	0.43862	1.00000	474.3	2123.6
			21272	1652.2	2744.8		L:126298 SPRBROOK 345 126299 REACBUS 345 BY				848.9	1530.0	0.41224		-0.02597	641.4	598.5
								C:BUS:SHORE_RD_3451		622							
								Open 128835 SHORE RD	345	129293 SHORE RD		138	1	0.43862	0.50089	236.9	1064.5
								Open 128835 SHORE RD	345	129293 SHORE RD		138	2	0.43862	0.49911	236.1	1060.7
								Open 126266 DUNWODIE	345	128835 SHORE RD		345	1	0.03071	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE		345	1	0.03071	-0.01299	0.0	-21.5
			21447	1713.7	2805.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 3				-54.4	498.0	0.32237		0.16959	-1.9	288.7
								C:129270 E.G.C.		418							
								Open 129270 E.G.C.	138	129271 E.G.C.-2		138	1	0.40554	0.37672	-129.6	516.0
			28108	1756.5	2847.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1				59.0	118.0	0.03360				
								Base Case									
			28109	1756.5	2847.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2				59.0	118.0	0.03360				
								Base Case									
			29950	1797.5	2888.2		L:129305 LCST GRV 138 129310 NEWBRGE 138 1				-132.5	-378.0	-0.13659				
								Base Case									
			30001	1839.9	2930.1		L:129244 GRT NECK 138 129293 SHORE RD 138 1				-256.2	-574.0	-0.17273		-0.10387	-252.3	-443.4
								C:129283 GLNWD SO		428							
								Open 129283 GLNWD SO	138	129293 SHORE RD		138	1	0.17436	-0.39490	-22.2	-748.8
			30004	1848.1	2938.2		L:129244 GRT NECK 138 129293 SHORE RD 138 1				-245.7	-574.0	-0.17763		-0.10387	-252.3	-444.3
								C:129282 GLNWD NO		427							
								Open 129282 GLNWD NO	138	129293 SHORE RD		138	1	0.17764	-0.41524	37.2	-730.3
			30023	1901.9	2991.3		L:129337 HAUPAGUE 138 129356 PILGRM P 138 1				-189.5	-442.0	-0.13275		0.00000	-192.5	-192.5
								C:129361 RULND RD		461							
								Open 129361 RULND RD	138	129421 HOLBROOK		138	1	-0.30589	0.43398	-9.9	815.5
			30026	1925.9	3015		L:129270 E.G.C. 138 129310 NEWBRGE 138 1				122.9	491.0	0.19114		0.19114	-15.8	352.4
								C:128842 NEPTCONV		398							
								Open 128842 NEPTCONV	345	128847 NWBRG		345	1	-0.20810	0.00000	-666.2	-666.2
			30027	1962.2	3050.8		L:129355 PILGRIM 138 129356 PILGRM P 138 1				189.5	450.0	0.13275		0.00000	192.5	192.5
								C:129361 RULND RD		461							
								Open 129361 RULND RD	138	129421 HOLBROOK		138	1	0.30589	0.43398	-9.9	841.7
			30029	2000.9	3089		L:129270 E.G.C. 138 129310 NEWBRGE 138 1				-21.3	491.0	0.25604		0.19114	-15.8	366.7
								C:129271 E.G.C.-2		422							
								Open 129271 E.G.C.-2	138	129310 NEWBRGE		138	2	0.35387	0.18342	-15.7	351.3
			30030	2002.9	3091		L:129244 GRT NECK 138 129248 L SUCS 138 1				136.3	288.0	0.07573		0.03667	134.1	207.6
								C:129283 GLNWD SO		428							
								Open 129283 GLNWD SO	138	129293 SHORE RD		138	1	-0.09893	-0.39490	-22.2	-813.2
			30031	2004.8	3092.9		L:129244 GRT NECK 138 129293 SHORE RD 138 1				-317.8	-574.0	-0.12781		-0.10387	-252.3	-460.6
								C:129248 L SUCS		415							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			30032	2011.9	3099.9		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	Open 129248 L SUCS 138 129293 SHORE RD 138 2		122.0	491.0	0.18342	0.55539	-0.04310	-117.9	-204.3
								C:128842 NEPTCONV 398								353.3
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.20665	0.00000	-666.2	-666.2
			30033	2012.4	3100.4		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-317.1	-574.0	-0.12765		-0.10387	-252.3	-461.3
								C:129248 L SUCS 414								
								Open 129248 L SUCS 138 129293 SHORE RD 138 1					0.55445	-0.04289	-116.9	-203.2
			30039	2022.7	3110.5		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			-16.4	491.0	0.25086		0.19114	-15.8	370.9
								C:129270 E.G.C. 421								
								Open 129270 E.G.C. 138 129310 NEWBRGE 138 3					0.35219	0.16959	-1.9	341.1
			30041	2029.7	3117.4		L:129244 GRT NECK 138 129248 L SUCS 138 1			130.5	288.0	0.07762		0.03667	134.1	208.5
								C:129282 GLNWD NO 427								
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					-0.09864	-0.41524	37.2	-805.6
			30048	2041	3128.5		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2			-21.3	491.0	0.25099		0.18342	-15.7	358.7
								C:129270 E.G.C. 420								
								Open 129270 E.G.C. 138 129310 NEWBRGE 138 1					0.35353	0.19114	-15.8	374.3
			30049	2074.4	3161.5		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1			106.1	239.0	0.06407				
								Base Case								
			30056	2105.2	3192		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2			-16.3	491.0	0.24099		0.18342	-15.7	370.4
								C:129270 E.G.C. 421								
								Open 129270 E.G.C. 138 129310 NEWBRGE 138 3					0.33950	0.16959	-1.9	355.1
			30061	2127.9	3214.4		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-245.5	-574.0	-0.15438		-0.10387	-252.3	-473.3
								C:129281 GLNWD GT 426								
								Open 129281 GLNWD GT 138 129288 ROSLYN 138 1					-0.14146	0.35707	-48.2	711.6
			30062	2137.9	3224.2		L:129310 NEWBRGE 138 129361 RULND RD 138 3			96.1	483.0	0.18098		0.13965	74.6	373.2
								C:129310 NEWBRGE 433								
								Open 129310 NEWBRGE 138 129361 RULND RD 138 1					0.27450	0.15055	78.2	400.0
			30063	2137.9	3224.2		L:129310 NEWBRGE 138 129361 RULND RD 138 3			96.1	483.0	0.18098		0.13965	74.6	373.2
								C:129310 NEWBRGE 434								
								Open 129310 NEWBRGE 138 129361 RULND RD 138 2					0.27450	0.15055	78.2	400.0
			30064	2145.9	3232.2		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2			73.7	165.0	0.04252		0.03360	59.0	131.1
								C:129248 L SUCS 521								
								Open 129248 L SUCS 138 129543 LKE SCSS 69.0 1					0.13922	0.06407	106.1	243.6
			30065	2145.9	3232.2		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1			73.7	165.0	0.04252		0.03360	59.0	131.1
								C:129248 L SUCS 521								
								Open 129248 L SUCS 138 129543 LKE SCSS 69.0 1					0.13922	0.06407	106.1	243.6
			30066	2149.6	3235.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2			57.5	165.0	0.05000		0.03360	59.0	131.2
								C:129282 GLNWD NO 427								
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					-0.03950	-0.41524	37.2	-855.4
			30067	2149.6	3235.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1			57.5	165.0	0.05000		0.03360	59.0	131.2
								C:129282 GLNWD NO 427								
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					-0.03950	-0.41524	37.2	-855.4
			30068	2159.8	3245.8		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-243.8	-574.0	-0.15288		-0.10387	-252.3	-476.7
								C:129265 CARLE PL 417								
								Open 129265 CARLE PL 138 129283 GLNWD SO 138 1					0.14063	-0.34851	60.5	-692.2
			30069	2168.9	3254.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1			59.8	165.0	0.04850		0.03360	59.0	131.9
								C:129283 GLNWD SO 428								
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					-0.03772	-0.39490	-22.2	-878.7
			30070	2168.9	3254.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2			59.8	165.0	0.04850		0.03360	59.0	131.9
								C:129283 GLNWD SO 428								
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					-0.03772	-0.39490	-22.2	-878.7
			30071	2172.4	3258.3		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-238.6	-574.0	-0.15438		-0.10387	-252.3	-478.0
								C:129270 E.G.C. 419								
								Open 129270 E.G.C. 138 129288 ROSLYN 138 1					0.14146	-0.35707	96.8	-678.9
			30072	2178.8	3264.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			-7.0	498.0	0.23179		0.16959	-1.9	367.6
								C:129270 E.G.C. 420								
								Open 129270 E.G.C. 138 129310 NEWBRGE 138 1					0.32541	0.19114	-15.8	400.7
			30073	2182.7	3268.4		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-237.0	-574.0	-0.15438		-0.10387	-252.3	-479.0
								C:129281 GLNWD GT 425								
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1					0.14146	-0.35707	108.0	-671.3
			30074	2184.3	3270		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			-14.8	491.0	0.23156		0.19114	-15.8	401.7
								C:129271 E.G.C.-2 423								
								Open 129271 E.G.C.-2 138 129310 NEWBRGE 138 4					0.31797	0.12714	3.0	280.7
			30077	2222.2	3307.4		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			-6.8	498.0	0.22718		0.16959	-1.9	375.0
								C:129271 E.G.C.-2 422								
								Open 129271 E.G.C.-2 138 129310 NEWBRGE 138 2					0.31398	0.18342	-15.7	391.9
			30078	2222.4	3307.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			121.1	498.0	0.16959		0.16959	-1.9	375.0



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:128842 NEPTCONV	398								
								Open 128842 NEPTCONV	345 128847 NWBRG		345 1		-0.18464	0.00000	-666.2	-666.2	
			30079	2235.6	3320.7		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2			72.1	165.0	0.04154		0.03360	59.0	134.1	
								C:129248 L SUCS	522								
								Open 129248 L SUCS	138 129543 LKE SCSS		69.0 2		0.13555	0.05858	97.0	228.0	
			30080	2235.6	3320.7		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1			72.1	165.0	0.04154		0.03360	59.0	134.1	
								C:129248 L SUCS	522								
								Open 129248 L SUCS	138 129543 LKE SCSS		69.0 2		0.13555	0.05858	97.0	228.0	
			30081	2241.7	3326.7		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 4			3.0	288.0	0.12714		0.13555	0.05858	97.0	228.0
								Base Case									
			30082	2241.9	3326.9		L:129244 GRT NECK 138 129293 SHORE RD 138 1			-231.3	-574.0	-0.15288		-0.10387	-252.3	-485.2	
								C:129265 CARLE PL	416								
								Open 129265 CARLE PL	138 129270 E.G.C.		138 1		-0.14063	0.34851	-149.8	631.6	
			30083	2242.9	3327.9		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2			-14.7	491.0	0.22547		0.18342	-15.7	395.7	
								C:129271 E.G.C.-2	423								
								Open 129271 E.G.C.-2	138 129310 NEWBRGE		138 4		0.33073	0.12714	3.0	288.2	
			30084	2279.2	3363.7		L:103166 NORHR138 138 129343 NRTHPT P 138 2			57.8	175.0	0.05144		0.00000	33.5	33.5	
								C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1		0.05135	0.50089	236.9	1378.6	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2		0.05135	0.49911	236.1	1373.7	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		-0.00693	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1		-0.00693	-0.01299	0.0	-29.6	
			30085	2279.2	3363.7		L:103166 NORHR138 138 129343 NRTHPT P 138 3			57.8	175.0	0.05144		0.00000	33.5	33.5	
								C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1		0.05135	0.50089	236.9	1378.6	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2		0.05135	0.49911	236.1	1373.7	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		-0.00693	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1		-0.00693	-0.01299	0.0	-29.6	
			30086	2279.2	3363.7		L:103166 NORHR138 138 129343 NRTHPT P 138 1			57.8	175.0	0.05144		0.00000	33.5	33.5	
								C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1		0.05135	0.50089	236.9	1378.6	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2		0.05135	0.49911	236.1	1373.7	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		-0.00693	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1		-0.00693	-0.01299	0.0	-29.6	
			30087	2281.7	3366.2		L:103166 NORHR138 138 129343 NRTHPT P 138 2			57.8	175.0	0.05135		0.00000	33.5	33.5	
								C:126266 DUNWODIE	363								
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		0.05135	1.00000	474.3	2756.0	
			30088	2281.7	3366.2		L:103166 NORHR138 138 129343 NRTHPT P 138 3			57.8	175.0	0.05135		0.00000	33.5	33.5	
								C:126266 DUNWODIE	363								
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		0.05135	1.00000	474.3	2756.0	
			30089	2281.7	3366.2		L:103166 NORHR138 138 129343 NRTHPT P 138 1			57.8	175.0	0.05135		0.00000	33.5	33.5	
								C:126266 DUNWODIE	363								
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		0.05135	1.00000	474.3	2756.0	
			30090	2288.1	3372.5		L:129244 GRT NECK 138 129248 L SUCS 138 1			129.7	288.0	0.06917		0.03667	134.1	218.0	
								C:129281 GLNWD GT	426								
								Open 129281 GLNWD GT	138 129288 ROSLYN		138 1		0.09104	0.35707	-48.2	768.8	
			30091	2310.3	3394.4		L:128830 HMP HRBR 345 147857 DVNPT NK 345 1			-846.7	-1860.0	-0.43862		0.00000	-638.6	-638.6	
								C:126266 DUNWODIE	363								
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		-0.43862	1.00000	474.3	2784.6	
			30092	2313.6	3397.7		L:128830 HMP HRBR 345 147857 DVNPT NK 345 1			-846.1	-1860.0	-0.43822		0.00000	-638.6	-638.6	
								C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1		-0.43862	0.50089	236.9	1395.8	
								Open 128835 SHORE RD	345 129293 SHORE RD		138 2		-0.43862	0.49911	236.1	1390.8	
								Open 126266 DUNWODIE	345 128835 SHORE RD		345 1		-0.03071	0.00000	1.3	1.3	
								Open 150 DUNWD SW	0.0 126266 DUNWODIE		345 1		-0.03071	-0.01299	0.0	-30.0	
			30093	2326	3409.9		L: Interface 29 ConEd-LIPA			1388.2	3684.0	0.98701		0.98701	827.1	3122.9	
								C:128842 NEPTCONV	398								
								Open 128842 NEPTCONV	345 128847 NWBRG		345 1		-0.84218	0.00000	-666.2	-666.2	
			30094	2338.2	3421.9		L:129244 GRT NECK 138 129248 L SUCS 138 1			128.6	288.0	0.06815		0.03667	134.1	219.8	
								C:129265 CARLE PL	417								
								Open 129265 CARLE PL	138 129283 GLNWD SO		138 1		-0.09035	-0.34851	60.5	-754.4	
			30095	2346.7	3430.3		L:129248 L SUCS 138 129293 SHORE RD 138 2			-117.9	-219.0	-0.04310					
								Base Case									
			30096	2351.5	3435.1		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			16.4	491.0	0.20181		0.19114	-15.8	433.7	
								C:129234 VLY STRM	410								
								Open 129234 VLY STRM	138 129271 E.G.C.-2		138 1		-0.16124	-0.06617	-199.7	-355.3	
			30097	2352	3435.6		L:129244 GRT NECK 138 129248 L SUCS 138 1			125.3	288.0	0.06917		0.03667	134.1	220.4	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:129270 E.G.C.	419							
								Open 129270 E.G.C.	138	129288 ROSLYN	138	1	-0.09104	-0.35707	96.8	-743.1
			30098	2363.5	3446.9		L: Interface 44 K-to-J			93.8	-869.0	-0.40734		0.00000	287.0	287.0
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345	1	-0.40734	1.00000	474.3	2837.9
			30099	2363.5	3446.9		L: Interface 43 J-to-K			-93.8	869.0	0.40734		0.00000	-287.0	-287.0
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345	1	0.40734	1.00000	474.3	2837.9
			30100	2364.1	3447.5		L: Interface 44 K-to-J			94.3	-869.0	-0.40747		0.00000	287.0	287.0
								C:BUS:SHORE RD 3451	622							
								Open 128835 SHORE RD	345	129293 SHORE RD	138	1	-0.40734	0.50089	236.9	1421.1
								Open 128835 SHORE RD	345	129293 SHORE RD	138	2	-0.40734	0.49911	236.1	1416.1
								Open 126266 DUNWODIE	345	128835 SHORE RD	345	1	0.00992	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1	0.00992	-0.01299	0.0	-30.7
			30101	2364.1	3447.5		L: Interface 43 J-to-K			-94.3	869.0	0.40747		0.00000	-287.0	-287.0
								C:BUS:SHORE RD 3451	622							
								Open 128835 SHORE RD	345	129293 SHORE RD	138	1	0.40734	0.50089	236.9	1421.1
								Open 128835 SHORE RD	345	129293 SHORE RD	138	2	0.40734	0.49911	236.1	1416.1
								Open 126266 DUNWODIE	345	128835 SHORE RD	345	1	-0.00992	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345	1	-0.00992	-0.01299	0.0	-30.7
			30102	2366.8	3450.2		L:129244 GRT NECK 138 129248 L SUCS 138 1			124.3	288.0	0.06917		0.03667	134.1	220.9
								C:129281 GLNWD GT	425							
								Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-0.09104	-0.35707	108.0	-737.1
			30103	2379.4	3462.6		L:129310 NEWBRGE 138 129361 RULND RD 138 3			96.7	483.0	0.16237		0.13965	74.6	406.9
								C:129305 LCST GRV	430							
								Open 129305 LCST GRV	138	129310 NEWBRGE	138	1	-0.16632	-0.13659	-132.5	-457.5
			30104	2381.1	3464.3		L:129248 L SUCS 138 129293 SHORE RD 138 1			-116.9	-219.0	-0.04289				
								Base Case								
			30105	2396.9	3479.9		L:129305 LCST GRV 138 129310 NEWBRGE 138 1			-131.2	-598.0	-0.19477		-0.13659	-132.5	-459.9
								C:129361 RULND RD	461							
								Open 129361 RULND RD	138	129421 HOLBROOK	138	1	-0.13406	0.43398	-9.9	1030.3
			30106	2411.3	3494.1		L:129421 HOLBROOK 138 129806 HOLBRK1 69.0 1			237.9	318.0	0.03324		0.02819	204.0	271.9
								C:129421 HOLBROOK	542							
								Open 129421 HOLBROOK	138	129807 HOLBRK2	69.0	2	0.39913	0.01265	84.9	115.4
			30107	2412.2	3495		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2			69.5	165.0	0.03959		0.03360	59.0	140.0
								C:129244 GRT NECK	519							
								Open 129244 GRT NECK	138	129537 GRT NECK	69.0	1	0.17827	0.03360	59.0	140.0
			30108	2412.2	3495		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1			69.5	165.0	0.03959		0.03360	59.0	140.0
								C:129244 GRT NECK	520							
								Open 129244 GRT NECK	138	129537 GRT NECK	69.0	2	0.17827	0.03360	59.0	140.0
			30109	2420.1	3502.8		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2			19.2	491.0	0.19496		0.18342	-15.7	428.2
								C:129234 VLY STRM	410							
								Open 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-0.17452	-0.06617	-199.7	-359.8
			30110	2422.9	3505.6		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1			136.0	335.0	0.08213		0.06407	106.1	261.3
								C:129248 L SUCS	522							
								Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2	0.30832	0.05858	97.0	238.9
			30111	2424.1	3506.8		L:129248 L SUCS 138 129543 LKE SCSS 69.0 2			97.0	239.0	0.05858				
								Base Case								
			30112	2428	3510.5		L:129337 HAUPAGUE 138 129393 C.ISLIP 138 1			119.7	442.0	0.13275		0.00000	122.7	122.7
								C:129361 RULND RD	461							
								Open 129361 RULND RD	138	129421 HOLBROOK	138	1	0.30589	0.43398	-9.9	1043.8
			30113	2428	3510.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			26.9	491.0	0.19114		0.19114	-15.8	448.3
								C:SIN:2501	678							
								Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00001	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			30114	2429	3511.6		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			-1.1	498.0	0.20546		0.16959	-1.9	410.0
								C:129271 E.G.C.-2	423							
								Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	4	0.28212	0.12714	3.0	311.8
			30115	2431.8	3514.3		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			26.2	491.0	0.19114		0.19114	-15.8	449.1
								C:GEN:MILLST 31	573							
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			30116	2431.8	3514.3		L:129270 E.G.C. 138 129310 NEWBRGE 138 1			26.2	491.0	0.19114		0.19114	-15.8	449.1
								C:GEN:MLS3&OMS1	575							
								Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00001	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			30117	2456.5	3538.7		L:129244 GRT NECK 138 129248 L SUCS 138 1			120.6	288.0	0.06815		0.03667	134.1	224.2
								C:129265 CARLE PL	416							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			30118	2467.6	3549.6		L:129310 NEWBRGE 138 129361 RULND RD 138 3	Open 129265 CARLE PL 138 129270 E.G.C.			82.3 483.0	0.16237	0.09035	0.34851	-149.8	706.3
								C:129305 LCST GRV 431						0.13965	74.6	419.2
								Open 129305 LCST GRV 138 129315 SYOSSET 138 1				0.16632	0.13659	46.4	383.4	
			30119	2488	3569.8	*	L:129270 E.G.C. 138 129310 NEWBRGE 138 1	C:GEN:SEABROOK1 574			15.4 491.0	0.19114		0.19114	-15.8	459.8
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			30121	2493.7	3575.4		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	C:129283 GLNWD SO 428			107.6 335.0	0.09118		0.06407	106.1	265.9
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1				-0.06865	-0.39490	-22.2	-1007.0	
			30126	2510.1	3591.6		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	C:129282 GLNWD NO 427			103.6 335.0	0.09220		0.06407	106.1	266.9
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1				-0.06774	-0.41524	37.2	-1005.1	
			30127	2511.7	3593.2	*	L:129244 GRT NECK 138 129248 L SUCS 138 1	C:129244 GRT NECK 519			159.5 288.0	0.05115		0.03667	134.1	226.2
								Open 129244 GRT NECK 138 129537 GRT NECK 69.0 1				0.43098	0.03360	59.0	143.4	
			30129	2517.1	3598.5		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2	C:129281 GLNWD GT 426			57.8 165.0	0.04260		0.03360	59.0	143.6
								Open 129281 GLNWD GT 138 129288 ROSLYN 138 1				0.02521	0.35707	-48.2	850.5	
			30130	2517.1	3598.5		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1	C:129281 GLNWD GT 426			57.8 165.0	0.04260		0.03360	59.0	143.6
								Open 129281 GLNWD GT 138 129288 ROSLYN 138 1				0.02521	0.35707	-48.2	850.5	
			30132	2531.4	3612.6		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	C:SIN:2501 678			26.7 491.0	0.18342		0.18342	-15.7	448.6
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00001	0.00000	-0.1	-0.1	
			30133	2535.3	3616.4		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch			26.0 491.0	0.18342		0.18342	-15.7	449.3
								C:GEN:MILLST 31 573			26.0 491.0	0.18342		0.18342	-15.7	449.3
			30134	2535.3	3616.4		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch			26.0 491.0	0.18342		0.18342	-15.7	449.3
								C:GEN:MLS3&OMS1 575			26.0 491.0	0.18342		0.18342	-15.7	449.3
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00001	0.00000	-0.1	-0.1	
			30135	2538.5	3619.6		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1	Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch			57.5 165.0	0.04237		0.03360	59.0	144.3
								C:129265 CARLE PL 417								
			30136	2538.5	3619.6		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2	Open 129265 CARLE PL 138 129283 GLNWD SO 138 1			57.5 165.0	0.04237	-0.02514	-0.34851	60.5	-824.2
								C:129265 CARLE PL 417						0.03360	59.0	144.3
			30137	2545.8	3626.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2	Open 129265 CARLE PL 138 129283 GLNWD SO 138 1			56.5 165.0	0.04260	-0.02514	-0.34851	60.5	-824.2
								C:129270 E.G.C. 419						0.03360	59.0	144.5
			30138	2545.8	3626.8		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1	Open 129270 E.G.C. 138 129288 ROSLYN 138 1			56.5 165.0	0.04260	-0.02521	-0.35707	96.8	-812.2
								C:129270 E.G.C. 419						0.03360	59.0	144.5
								Open 129270 E.G.C. 138 129288 ROSLYN 138 1				-0.02521	-0.35707	96.8	-812.2	
			30139	2552.4	3633.4		L:129244 GRT NECK 138 129537 GRT NECK 69.0 2	C:129281 GLNWD GT 425			56.3 165.0	0.04260		0.03360	59.0	144.7
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1				-0.02521	-0.35707	108.0	-803.4	
			30140	2552.4	3633.4		L:129244 GRT NECK 138 129537 GRT NECK 69.0 1	C:129281 GLNWD GT 425			56.3 165.0	0.04260		0.03360	59.0	144.7
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1				-0.02521	-0.35707	108.0	-803.4	
			30150	2591.5	3671.9	*	L:129244 GRT NECK 138 129537 GRT NECK 69.0 1	C:129265 CARLE PL 416			55.2 165.0	0.04237		0.03360	59.0	146.1
								Open 129265 CARLE PL 138 129270 E.G.C. 138 1					0.02514	0.34851	-149.8	753.4
			30151	2591.5	3671.9	*	L:129244 GRT NECK 138 129537 GRT NECK 69.0 2	C:129265 CARLE PL 416			55.2 165.0	0.04237		0.03360	59.0	146.1
								Open 129265 CARLE PL 138 129270 E.G.C. 138 1					0.02514	0.34851	-149.8	753.4
			30152	2593.4	3673.8		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	C:GEN:SEAB&OMS1 576			15.3 491.0	0.18342		0.18342	-15.7	460.0
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00001	0.00000	-0.1	-0.1	
			30153	2593.4	3673.8	*	L:129271 E.G.C.-2 138 129310 NEWBRGE 138 2	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch			15.3 491.0	0.18342		0.18342	-15.7	460.0
								C:GEN:SEABROOK1 574								
			30156	2599.6	3679.9	*	L:129244 GRT NECK 138 129293 SHORE RD 138 1	Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch			-268.8 -574.0	-0.11741		-0.10387	-252.3	-522.3
								C:129282 GLNWD NO 524								
								Open 129282 GLNWD NO 138 129587 GLNWD NO 69.0 1				-0.23265	0.05817	70.9	222.1	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			30159	2610.3	3690.5		L:129310 NEWBRGE 138 129361 RULND RD 138 3	C:129310 NEWBRGE 432		69.9	483.0	0.15826		0.13965	74.6	439.2
								Open 129310 NEWBRGE 138 129324 BETHPAGE 138 1				0.17794	0.10458		-26.7	246.3
			30160	2610.4	3690.6		L:129310 NEWBRGE 138 129361 RULND RD 138 3			69.9	483.0	0.15826		0.13965	74.6	439.2
								C:129321 BAGATELLE 438								
								Open 129321 BAGATELLE 138 129324 BETHPAGE 138 1				-0.17794	-0.10458		26.7	-246.3
			30180	2632.3	3712.2		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			26.7	498.0	0.17906		0.16959	-1.9	444.5
								C:129234 VLY STRM 410								
								Open 129234 VLY STRM 138 129271 E.G.C.-2 138 1				-0.14306	-0.06617		-199.7	-373.9
			30182	2633.5	3713.4		L:129310 NEWBRGE 138 129361 RULND RD 138 3			66.2	483.0	0.15826		0.13965	74.6	442.4
								C:129321 BAGATELLE 439								
								Open 129321 BAGATELLE 138 129355 PILGRIM 138 1				0.17794	0.10458		-47.2	228.2
			31857	2687.4	3766.6		L:129248 L SUCS 138 129543 LKE SCSS 69.0 2			127.7	335.0	0.07714		0.05858	97.0	254.4
								C:129248 L SUCS 521								
								Open 129248 L SUCS 138 129543 LKE SCSS 69.0 1				0.28956	0.06407		106.1	278.3
			31872	2706	3784.9		L: Interface 29 ConEd-LIPA			1013.2	3684.0	0.98701		0.98701	827.1	3498.0
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00003	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31883	2710.9	3789.8		L: Interface 29 ConEd-LIPA			1008.3	3684.0	0.98701		0.98701	827.1	3502.9
								C:GEN:MILLST 31 573								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31884	2710.9	3789.8		L: Interface 29 ConEd-LIPA			1008.3	3684.0	0.98701		0.98701	827.1	3502.9
								C:GEN:MLS3&OMS1 575								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00003	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31901	2724.5	3803.2		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			36.0	498.0	0.16959		0.16959	-1.9	460.1
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00001	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31905	2728.3	3806.9		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			35.3	498.0	0.16959		0.16959	-1.9	460.8
								C:GEN:MLS3&OMS1 575								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00001	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31906	2728.3	3806.9		L:129270 E.G.C. 138 129310 NEWBRGE 138 3			35.3	498.0	0.16959		0.16959	-1.9	460.8
								C:GEN:MILLST 31 573								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31913	2731.6	3810.3		L:129310 NEWBRGE 138 129361 RULND RD 138 3			101.5	483.0	0.13965		0.13965	74.6	456.1
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				0.00000	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31921	2735.7	3814.2		L:129310 NEWBRGE 138 129361 RULND RD 138 3			101.0	483.0	0.13965		0.13965	74.6	456.7
								C:GEN:MLS3&OMS1 575								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				0.00000	0.00000		-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31922	2735.7	3814.2	*	L:129310 NEWBRGE 138 129361 RULND RD 138 3			101.0	483.0	0.13965		0.13965	74.6	456.7
								C:GEN:MILLST 31 573								
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			31928	2746	3824.4		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1			-244.3	-426.0	-0.06617		-0.06617	-199.7	-381.4
								C:129276 FREEPORT 424								
								Open 129276 FREEPORT 138 129310 NEWBRGE 138 1				0.72650	0.00000		-61.4	-61.4
			31989	2757.9	3836.1		L: Interface 29 ConEd-LIPA			962.0	3684.0	0.98701		0.98701	827.1	3549.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2				-0.00003	0.00000		-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			31990	2757.9	3836.1		L: Interface 29 ConEd-LIPA			962.0	3684.0	0.98701		0.98701	827.1	3549.2
								C:GEN:SEABROOK1 574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			33550	2769.7	3847.8		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1			-242.7	-426.0	-0.06617		-0.06617	-199.7	-383.0
								C:129248 L SUCS 413								
								Open 129248 L SUCS 138 129249 L SUCSPH 138 1				-0.26012	0.00000		165.4	165.4
			33557	2772.4	3850.5		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1			-242.6	-426.0	-0.06617		-0.06617	-199.7	-383.1
								C:126455 JAMAICA 498								
								Open 126455 JAMAICA 138 129249 L SUCSPH 138 1				0.26012	0.00000		-164.7	-164.7
			33576	2780.6	3858.6		L: Interface 29 ConEd-LIPA			1075.3	3684.0	0.93819		0.98701	827.1	3571.6
								C:129027 NRTPTG4 508								
								Open 129027 NRTPTG4 22.0 129342 NRTHPRT2 138 1				-0.77371	0.06310		-320.7	-145.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			33577	2780.6	3858.6		L: Interface 29 ConEd-LIPA	C:129026 NRTPTG3	507	1075.2	3684.0	0.93819		0.98701	827.1	3571.6	
								Open 129026 NRTPTG3	22.0	129342	NRTHPT2	138	1	-0.77371	0.06310	-320.7	-145.2
			33579	2781.2	3859.2		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 4	C:129270 E.G.C.	420		-0.9	483.0	0.17398		0.12714	3.0	356.6
								Open 129270 E.G.C.	138	129310	NEWBRGE	138	1	0.24506	0.19114	-15.8	515.8
			33581	2782.7	3860.6		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 4	C:129271 E.G.C.-2	422		-1.0	483.0	0.17394		0.12714	3.0	356.8
								Open 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	0.25515	0.18342	-15.7	494.7
			33585	2784.5	3862.4	*	L:129270 E.G.C. 138 129310 NEWBRGE 138 3	C:GEN:SEABROOK1	574		25.8	498.0	0.16959		0.16959	-1.9	470.3
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch					
			33596	2786.5	3864.4		L: Interface 29 ConEd-LIPA	C:129025 NRTPTG2	506		1062.9	3684.0	0.94064		0.98701	827.1	3577.4
								Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	-0.73495	0.06310	-320.9	-145.0
			33597	2786.6	3864.5	*	L: Interface 29 ConEd-LIPA	C:129024 NRTPTG1	505		1062.8	3684.0	0.94063		0.98701	827.1	3577.5
								Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	-0.73499	0.06310	-320.7	-144.9
			33601	2787.1	3865		L:129339 KINGS HWY 138 129355 PILGRIM 138 1	C:129361 RULND RD	461		-88.9	-636.0	-0.19631		0.00514	-93.5	-79.1
								Open 129361 RULND RD	138	129421	HOLBROOK	138	1	-0.46420	0.43398	-9.9	1199.6
			33603	2787.6	3865.5		L:129339 KINGS HWY 138 129427 HOLTS GT 138 1	C:129361 RULND RD	461		88.8	636.0	0.19631		-0.00514	93.4	79.0
								Open 129361 RULND RD	138	129421	HOLBROOK	138	1	0.46420	0.43398	-9.9	1199.9
			33648	2826.5	3903.9		L: Interface 28 LIPA Import	C:129025 NRTPTG2	506		2240.5	4589.0	0.83089		0.89399	1919.6	4446.5
								Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	-1.00000	0.06310	-320.9	-142.5
			33649	2826.5	3903.9		L: Interface 64 LIPA Export	C:129025 NRTPTG2	506		-2240.5	-4589.0	-0.83089		-0.89399	-1919.6	-4446.5
								Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	1.00000	0.06310	-320.9	-142.5
			33650	2826.7	3904.1		L: Interface 64 LIPA Export	C:129027 NRTPTG4	508		-2240.3	-4589.0	-0.83089		-0.89399	-1919.6	-4446.7
								Open 129027 NRTPTG4	22.0	129342	NRTHPT2	138	1	1.00000	0.06310	-320.7	-142.3
			33651	2826.7	3904.1		L: Interface 28 LIPA Import	C:129027 NRTPTG4	508		2240.3	4589.0	0.83089		0.89399	1919.6	4446.7
								Open 129027 NRTPTG4	22.0	129342	NRTHPT2	138	1	-1.00000	0.06310	-320.7	-142.3
			33652	2826.7	3904.1		L: Interface 28 LIPA Import	C:129024 NRTPTG1	505		2240.3	4589.0	0.83089		0.89399	1919.6	4446.7
								Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	-1.00000	0.06310	-320.7	-142.3
			33653	2826.7	3904.1		L: Interface 64 LIPA Export	C:129024 NRTPTG1	505		-2240.3	-4589.0	-0.83089		-0.89399	-1919.6	-4446.7
								Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1.00000	0.06310	-320.7	-142.3
			33654	2826.7	3904.1		L: Interface 28 LIPA Import	C:129026 NRTPTG3	507		2240.3	4589.0	0.83089		0.89399	1919.6	4446.7
								Open 129026 NRTPTG3	22.0	129342	NRTHPT2	138	1	-1.00000	0.06310	-320.7	-142.3
			33655	2826.7	3904.1		L: Interface 64 LIPA Export	C:129026 NRTPTG3	507		-2240.3	-4589.0	-0.83089		-0.89399	-1919.6	-4446.7
								Open 129026 NRTPTG3	22.0	129342	NRTHPT2	138	1	1.00000	0.06310	-320.7	-142.3
			33671	2838.1	3915.4		L:129248 L SUCS 138 129543 LKE SCSS 69.0 2	C:129283 GLNWD SO	428		98.4	335.0	0.08337		0.05858	97.0	263.3
								Open 129283 GLNWD SO	138	129293	SHORE RD	138	1	-0.06277	-0.39490	-22.2	-1143.0
			33672	2839.1	3916.3		L:129305 LCST GRV 138 129315 SYOSSET 138 1	C:129361 RULND RD	461		45.0	598.0	0.19477		0.13659	46.4	434.1
								Open 129361 RULND RD	138	129421	HOLBROOK	138	1	0.13406	0.43398	-9.9	1222.2
			33692	2850.6	3927.7		L:129248 L SUCS 138 129543 LKE SCSS 69.0 2	C:129282 GLNWD NO	427		94.7	335.0	0.08430		0.05858	97.0	264.0
								Open 129282 GLNWD NO	138	129293	SHORE RD	138	1	-0.06194	-0.41524	37.2	-1146.5
			33697	2855.7	3932.8		L:129305 LCST GRV 138 129310 NEWBRGE 138 1	C:129310 NEWBRGE	434		-144.1	-598.0	-0.15895		-0.13659	-132.5	-522.5
								Open 129310 NEWBRGE	138	129361	RULND RD	138	2	-0.14850	0.15055	78.2	508.1
			33698	2855.7	3932.8		L:129305 LCST GRV 138 129310 NEWBRGE 138 1	C:129310 NEWBRGE	433		-144.1	-598.0	-0.15895		-0.13659	-132.5	-522.5
								Open 129310 NEWBRGE	138	129361	RULND RD	138	1	-0.14850	0.15055	78.2	508.1
			33732	2876.1	3952.9		L:129271 E.G.C.-2 138 129310 NEWBRGE 138 4	C:129270 E.G.C.	421		2.5	483.0	0.16705		0.12714	3.0	368.7
								Open 129270 E.G.C.	138	129310	NEWBRGE	138	3	0.23533	0.16959	-1.9	485.9
			33743	2881	3957.6		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	C:129270 E.G.C.	421		103.9	335.0	0.08021		0.06407	106.1	290.7

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:129281 GLNWD GT	426							
			35028	2894.6	3971.1		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1	Open 129281 GLNWD GT	138 129288 ROSLYN		138 1	0.04520	0.35707	-48.2	980.5	
										-208.4	-426.0	-0.07516		-0.06617	-199.7	-391.2
								C:129305 LCST GRV	430							
			35050	2894.6	3971.1		L:129234 VLY STRM 138 129271 E.G.C.-2 138 1	Open 129305 LCST GRV	138 129310 NEWBRGE		138 1	0.06587	-0.13659	-132.5	-527.8	
										-266.2	-426.0	-0.05519		-0.06617	-199.7	-391.2
								C:128910 BRTG9-12	502							
			35336	2896.5	3973		L:129305 LCST GRV 138 129315 SYOSSET 138 1	Open 128910 BRTG9-12	13.8 129203 BARRETT2		138 1	0.46730	0.02349	-142.4	-74.4	
								Base Case		46.4	442.0	0.13659				
			35374	2897.9	3974.4		L:129305 LCST GRV 138 129310 NEWBRGE 138 1			-143.3	-598.0	-0.15689		-0.13659	-132.5	-528.3
								C:129310 NEWBRGE	435							
			35414	2902.9	3979.3		L: Interface 28 LIPA Import	Open 129310 NEWBRGE	138 129361 RULND RD		138 3	-0.14539	0.13965	74.6	479.3	
										2062.0	4589.0	0.87051		0.89399	1919.6	4514.8
								C:128910 BRTG9-12	502							
			35415	2902.9	3979.3		L: Interface 64 LIPA Export	Open 128910 BRTG9-12	13.8 129203 BARRETT2		138 1	-1.00000	0.02349	-142.4	-74.2	
										-2062.0	-4589.0	-0.87051		-0.89399	-1919.6	-4514.8
								C:128910 BRTG9-12	502							
			35435	2905.6	3982		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	Open 128910 BRTG9-12	13.8 129203 BARRETT2		138 1	1.00000	0.02349	-142.4	-74.2	
										103.4	335.0	0.07972		0.06407	106.1	292.3
								C:129265 CARLE PL	417							
			35442	2908.3	3984.7		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	Open 129265 CARLE PL	138 129283 GLNWD SO		138 1	-0.04489	-0.34851	60.5	-952.1	
										101.7	335.0	0.08021		0.06407	106.1	292.4
								C:129270 E.G.C.	419							
			35475	2914.7	3990.9		L:129248 L SUCS 138 129543 LKE SCSS 69.0 1	Open 129270 E.G.C.	138 129288 ROSLYN		138 1	-0.04520	-0.35707	96.8	-941.7	
										101.2	335.0	0.08021		0.06407	106.1	292.8
								C:129281 GLNWD GT	425							
			35477	2914.7	3991		L:129305 LCST GRV 138 129310 NEWBRGE 138 1	Open 129281 GLNWD GT	138 129282 GLNWD NO		138 1	-0.04520	-0.35707	108.0	-932.7	
										-126.0	-598.0	-0.16193		-0.13659	-132.5	-530.6
								C:129310 NEWBRGE	432							
			35479	2914.8	3991		L:129305 LCST GRV 138 129310 NEWBRGE 138 1	Open 129310 NEWBRGE	138 129324 BETHPAGE		138 1	-0.24230	0.10458	-26.7	278.2	
										-126.0	-598.0	-0.16193		-0.13659	-132.5	-530.6
								C:129321 BAGATELLE	438							
			35512	2919	3995.2		L: Interface 64 LIPA Export	Open 129321 BAGATELLE	138 129324 BETHPAGE		138 1	0.24230	-0.10458	26.7	-278.1	
										-2077.8	-4589.0	-0.86030		-0.89399	-1919.6	-4529.2
								C:128900 BARETG1	499							
			35513	2919	3995.2		L: Interface 28 LIPA Import	Open 128900 BARETG1	20.0 129202 BARRETT1		138 1	1.00000	0.03370	-158.2	-59.8	
										2077.8	4589.0	0.86030		0.89399	1919.6	4529.2
								C:128900 BARETG1	499							
			35514	2919	3995.2		L: Interface 28 LIPA Import	Open 128900 BARETG1	20.0 129202 BARRETT1		138 1	-1.00000	0.03370	-158.2	-59.8	
										1979.5	4589.0	0.89399		0.89399	1919.6	4529.2
								C:128958 GLNWDMDID	504							
			35515	2919	3995.2		L: Interface 64 LIPA Export	Open 128958 GLNWDMDID	13.8 129281 GLNWD GT		138 1	-1.00000	0.00000	-59.8	-59.8	
										-1979.5	-4589.0	-0.89399		-0.89399	-1919.6	-4529.2
								C:128958 GLNWDMDID	504							
			35523	2919.5	3995.7		L: Interface 64 LIPA Export	Open 128958 GLNWDMDID	13.8 129281 GLNWD GT		138 1	1.00000	0.00000	-59.8	-59.8	
										-2077.4	-4589.0	-0.86030		-0.89399	-1919.6	-4529.6
								C:129093 PTJEFG4	512							
			35524	2919.5	3995.7		L: Interface 28 LIPA Import	Open 129093 PTJEFG4	20.0 129449 PT JEFF2		138 1	1.00000	0.03370	-157.8	-59.4	
										2077.4	4589.0	0.86030		0.89399	1919.6	4529.6
								C:129093 PTJEFG4	512							
			35601	2923.2	3999.4		L: Interface 28 LIPA Import	Open 129093 PTJEFG4	20.0 129449 PT JEFF2		138 1	-1.00000	0.03370	-157.8	-59.4	
										2134.0	4589.0	0.83981		0.89399	1919.6	4533.0
								C:129076 HOLTS1-5	510							
			35602	2923.2	3999.4		L: Interface 64 LIPA Export	Open 129076 HOLTS1-5	13.8 129427 HOLTS GT		138 1	-1.00000	0.05418	-214.4	-56.0	
										-2134.0	-4589.0	-0.83981		-0.89399	-1919.6	-4533.0
								C:129076 HOLTS1-5	510							
			37066	2926.9	4003 *		L: Interface 28 LIPA Import	Open 129076 HOLTS1-5	13.8 129427 HOLTS GT		138 1	1.00000	0.05418	-214.4	-56.0	
										2038.0	4589.0	0.87157		0.89399	1919.6	4536.3
								C:128901 BARETG2	500							
			37067	2926.9	4003 *		L: Interface 64 LIPA Export	Open 128901 BARETG2	20.0 129203 BARRETT2		138 1	-1.00000	0.02242	-118.3	-52.7	
										-2038.0	-4589.0	-0.87157		-0.89399	-1919.6	-4536.3
								C:128901 BARETG2	500							
			37160	2936.8	4012.8		L:126452 HUDAVE E 138 126455 JAMAICA 138 2	Open 128901 BARETG2	20.0 129203 BARRETT2		138 1	1.00000	0.02242	-118.3	-52.7	
										49.2	406.0	0.12150		0.00000	-8.2	-8.2
								C:BUS:SHORE RD 3451	622							
								Open 128835 SHORE RD	345 129293 SHORE RD		138 1	0.12133	0.50089	236.9	1708.0	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 128835 SHORE RD	345	129293 SHORE RD	138 2		0.12133	0.49911	236.1	1701.9
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.01245	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345 1		-0.01245	-0.01299	0.0	-38.1
			37161	2936.8	4012.8		L:126452 HUDAVE E 138 126455 JAMAICA 138 1			49.2	406.0	0.12150		0.00000	-8.2	-8.2
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD	345	129293 SHORE RD	138 1		0.12133	0.50089	236.9	1708.0
								Open 128835 SHORE RD	345	129293 SHORE RD	138 2		0.12133	0.49911	236.1	1701.9
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.01245	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345 1		-0.01245	-0.01299	0.0	-38.1
			37178	2939.3	4015.2		L:126452 HUDAVE E 138 126455 JAMAICA 138 1			49.4	406.0	0.12133		0.00000	-8.2	-8.2
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		0.12133	1.00000	474.3	3413.6
										49.4	406.0	0.12133		0.00000	-8.2	-8.2
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		0.12133	1.00000	474.3	3413.6
										-121.0	-598.0	-0.16193		-0.13659	-132.5	-534.8
								C:129321 BAGATELLE	439							
								Open 129321 BAGATELLE	138	129355 PILGRIM	138 1		-0.24230	0.10458	-47.2	260.8
										99.4	335.0	0.07972		0.06407	106.1	295.5
								C:129265 CARLE PL	416							
								Open 129265 CARLE PL	138	129270 E.G.C.	138 1		0.04489	0.34851	-149.8	880.4
										-192.2	-436.0	-0.08237		0.00000	-153.1	-153.1
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.08237	1.00000	474.3	3434.6
										-192.0	-436.0	-0.08230		0.00000	-152.9	-152.9
								C:126266 DUNWODIE	363							
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.08230	1.00000	474.3	3439.2
										-192.1	-436.0	-0.08228		0.00000	-153.1	-153.1
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD	345	129293 SHORE RD	138 1		-0.08237	0.50089	236.9	1722.1
								Open 128835 SHORE RD	345	129293 SHORE RD	138 2		-0.08237	0.49911	236.1	1716.0
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.00749	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345 1		-0.00749	-0.01299	0.0	-38.5
										-191.9	-436.0	-0.08220		0.00000	-152.9	-152.9
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD	345	129293 SHORE RD	138 1		-0.08230	0.50089	236.9	1724.4
								Open 128835 SHORE RD	345	129293 SHORE RD	138 2		-0.08230	0.49911	236.1	1718.3
								Open 126266 DUNWODIE	345	128835 SHORE RD	345 1		-0.00748	0.00000	1.3	1.3
								Open 150 DUNWD SW	0.0	126266 DUNWODIE	345 1		-0.00748	-0.01299	0.0	-38.6
										-202.8	-426.0	-0.07516		-0.06617	-199.7	-396.2
								C:129305 LCST GRV	431							
								Open 129305 LCST GRV	138	129315 SYOSSET	138 1		-0.06587	0.13659	46.4	452.0
										-217.7	-426.0	-0.06955		-0.06617	-199.7	-397.9
								C:129310 NEWBRGE	527							
								Open 129310 NEWBRGE	138	129639 NEWBRGE1	69.0 1		-0.25989	0.01302	69.2	108.1
										119.7	335.0	0.07183		0.06407	106.1	298.1
								C:129244 GRT NECK	519							
								Open 129244 GRT NECK	138	129537 GRT NECK	69.0 1		0.23075	0.03360	59.0	159.7
										119.7	335.0	0.07183		0.06407	106.1	298.1
								C:129244 GRT NECK	520							
								Open 129244 GRT NECK	138	129537 GRT NECK	69.0 2		0.23075	0.03360	59.0	159.7

## FCITC Single Study

PSS(tm)MUST 9.0 -- Managing and Utilizing System Transmission -- MON, APR 26 2010 15:46 <FC2000>X  
 2009 CRPP 2018 GEN BALANCED CASE FROM 2008 FERC 2018 CASE  
 2018 SU GB LOAD, WITH TO CRP FIRM PLANS; NYCA DEMAND 37130MW  
 Case.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\abb-ph2-v2-lipa-import.SAV  
 Subsys.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.sub  
 Monit.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.mon  
 Contin.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS-TTL.con  
 Exclud.File C:\Documents and Settings\USPRBUY\Desktop\MUST\Files\STARS.exc

Study transfer level - 3000.0 MW. Total violations: 36973  
 First violation - -112608.9 MW.

Interface-1 Interface 28 LIPA Import Init.Flow= 2732.74 TDF= 0.9070

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	PreShift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
ABCDEFGH_K_IMPORT		3000.0	1	-112608	-99401.4		L: Interface 20 PJM-CENT			3408.5	0.0	0.03027		0.02359	3312.9	657.0
							C:GEN:KINTIGH-Newl		776							
							Open 130754 KINTI345	345 130873 KINTIG24	24.0 1				0.00000	-0.02031	-290.5	1996.9
							Open 130754 KINTI345	345 130873 KINTIG24	24.0 2				-0.16427	-0.04068	-581.7	3999.5
			2	-111659	-98540.1		L: Interface 20 PJM-CENT			3363.4	0.0	0.03012		0.02359	3312.9	679.4
							C:126294 PLTVLLEY	345 137455 ATHENS	121							
							Open 126294 PLTVLLEY	345 137455 ATHENS	345 1				-0.03884	-0.16830	-1298.7	17493.3
			3	-110160	-97181.2		L: Interface 20 PJM-CENT			3366.2	0.0	0.03056		0.02359	3312.9	714.7
							C:126294 PLTVLLEY	345 137451 LEEDS	120							
							Open 126294 PLTVLLEY	345 137451 LEEDS 3	345 2				-0.03968	-0.17567	-1341.7	18010.4
			4	-110129	-97152.5		L: Interface 20 PJM-CENT			3346.3	0.0	0.03038		0.02359	3312.9	715.5
							C:130755 OAKDL345	345 130757 WATRC3	206							
							Open 130755 OAKDL345	345 130757 WATRC345	345 1				-0.10955	-0.06207	-304.2	6531.3
			5	-109557	-96633.4		L: Interface 20 PJM-CENT			3370.5	0.0	0.03077		0.02359	3312.9	729.0
							C:SER:CMT34&MTR341		594							
							Open 130750 COOPC345	345 146754 MDTN TAP	345 1				0.07954	0.12697	908.9	-13001.3
							Open 125001 ROCK TAV	345 146754 MDTN TAP	345 1				0.03247	-0.08992	-452.6	9398.6
			6	-109262	-96365.8		L: Interface 20 PJM-CENT			3308.3	0.0	0.03028		0.02359	3312.9	735.9
							C:136150 CLAY	345 149001 PANNEL	717							
							Open 136150 CLAY	345 149001 PANNELL3	345 1				-0.08442	-0.07929	54.8	8717.9
			7	-109137	-96253		L: Interface 20 PJM-CENT			3308.3	0.0	0.03031		0.02359	3312.9	738.9
							C:136150 CLAY	345 149001 PANNEL	718							
							Open 136150 CLAY	345 149001 PANNELL3	345 2				-0.08457	-0.07955	54.9	8736.4
			8	-108021	-95240.3		L: Interface 20 PJM-CENT			3373.2	0.0	0.03123		0.02359	3312.9	765.2
							C:137200 EDIC	345 137452 N.SCOT	946							
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				0.07080	0.10793	850.8	-10807.4
			9	-107577	-94838.3		L: Interface 20 PJM-CENT			3380.7	0.0	0.03143		0.02359	3312.9	775.7
							C:SIN:1501		670							
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				0.07265	0.10793	850.8	-10759.6
							Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				0.04997	0.00000	119.9	119.9
							Open 137235 PORTER 1	115 147905 ILION	115 1				-0.00015	-0.00027	88.8	117.3
			10	-107577	-94838.1*		L: Interface 20 PJM-CENT			3380.7	0.0	0.03143		0.02359	3312.9	775.7
							C:SIN:1601		671							
							Open 137200 EDIC	345 137452 N.SCOT77	345 1				0.07265	0.10793	850.8	-10759.5
							Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1				0.04999	0.00000	119.9	119.9
							Open 137235 PORTER 1	115 137246 VALLEY	115 1				-0.00023	-0.00040	74.9	117.9
			30	-35161.4	-29158		L: Interface 23 QFW			1128.6	0.0	0.03210		0.02080	1033.5	302.0
							C:130754 KINTI345	345 149000 ROCH 3	205							





From	To	Transfer Level	N	FCITC	Interface-1	Prag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			48	-19613.8	-15056.6		L: Interface	Open 129024 NRTPTG1 22.0 129346 NRHTPT3 138 1		618.4	0.0	0.03153	0.17002	0.06310	-320.6	-1558.4
								C:129025 NRTPTG2 22.0 129341 NRHTPR 506						0.02080	673.0	265.0
								Open 129025 NRTPTG2 22.0 129341 NRHTPT1 138 1					0.17002	0.06310	-320.8	-1558.5
			49	-19365.6	-14831.5		L: Interface	47 C-PJMWest -585.1 0.0 -0.03022						-0.03320	-573.3	69.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					0.05512	0.05418	-214.3	-1263.5
			50	-19365.6	-14831.5		L: Interface	60 C2PJMC -585.1 0.0 -0.03022						-0.03320	-573.3	69.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					0.05512	0.05418	-214.3	-1263.5
			51	-19365.6	-14831.5		L: Interface	48 PJMWest-C 585.1 0.0 0.03022						0.03320	573.3	-69.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					-0.05512	0.05418	-214.3	-1263.5
			52	-19365.6	-14831.5		L: Interface	61 PJMC2C 585.1 0.0 0.03022						0.03320	573.3	-69.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					-0.05512	0.05418	-214.3	-1263.5
			53	-19325.1	-14794.7		L: Interface	48 PJMWest-C 641.6 0.0 0.03320						0.03320	573.3	-68.3
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			54	-19325.1	-14794.7		L: Interface	60 C2PJMC -641.6 0.0 -0.03320						-0.03320	-573.3	68.3
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			55	-19325.1	-14794.7		L: Interface	47 C-PJMWest -641.6 0.0 -0.03320						-0.03320	-573.3	68.3
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			56	-19325.1	-14794.7		L: Interface	61 PJMC2C 641.6 0.0 0.03320						0.03320	573.3	-68.3
								C:SIN:2501 678								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch								
			57	-19321.7	-14791.7		L: Interface	48 PJMWest-C 641.5 0.0 0.03320						0.03320	573.3	-68.2
								C:GEN:SEABROOK1 574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			58	-19321.7	-14791.7		L: Interface	47 C-PJMWest -641.5 0.0 -0.03320						-0.03320	-573.3	68.2
								C:GEN:SEABROOK1 574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			59	-19321.7	-14791.7		L: Interface	47 C-PJMWest -641.5 0.0 -0.03320						-0.03320	-573.3	68.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			60	-19321.7	-14791.7		L: Interface	61 PJMC2C 641.5 0.0 0.03320						0.03320	573.3	-68.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			61	-19321.7	-14791.7		L: Interface	48 PJMWest-C 641.5 0.0 0.03320						0.03320	573.3	-68.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			62	-19321.7	-14791.7		L: Interface	60 C2PJMC -641.5 0.0 -0.03320						-0.03320	-573.3	68.2
								C:GEN:SEABROOK1 574								
								Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch								
			63	-19321.7	-14791.7		L: Interface	60 C2PJMC -641.5 0.0 -0.03320						-0.03320	-573.3	68.2
								C:GEN:SEAB&OMS1 576								
								Open 100508 SANDB115 115 100509 SB RCTOR 115 2					0.00000	0.00000	-0.1	-0.1

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
			64	-19321.7	-14791.7		L: Interface	61 PJMC2C		641.5	0.0	0.03320		0.03320	573.3	-68.2
								C:GEN:SEABROOK1		574						
								Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch					
			65	-19160.5	-14645.5		L: Interface	47 C-PJMWest		-636.2	0.0	-0.03320		-0.03320	-573.3	62.8
								C:GEN:MILLST 31		573						
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			66	-19160.5	-14645.5		L: Interface	60 C2PJMC		-636.2	0.0	-0.03320		-0.03320	-573.3	62.8
								C:GEN:MILLST 31		573						
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			67	-19160.5	-14645.5		L: Interface	61 PJMC2C		636.2	0.0	0.03320		0.03320	573.3	-62.8
								C:GEN:MLS3&OMS1		575						
								Open 100508 SANDB115	115	100509 SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			68	-19160.5	-14645.5		L: Interface	48 PJMWest-C		636.2	0.0	0.03320		0.03320	573.3	-62.8
								C:GEN:MILLST 31		573						
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			69	-19160.5	-14645.5		L: Interface	48 PJMWest-C		636.2	0.0	0.03320		0.03320	573.3	-62.8
								C:GEN:MLS3&OMS1		575						
								Open 100508 SANDB115	115	100509 SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			70	-19160.5	-14645.5		L: Interface	47 C-PJMWest		-636.2	0.0	-0.03320		-0.03320	-573.3	62.8
								C:GEN:MLS3&OMS1		575						
								Open 100508 SANDB115	115	100509 SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			71	-19160.5	-14645.5		L: Interface	61 PJMC2C		636.2	0.0	0.03320		0.03320	573.3	-62.8
								C:GEN:MILLST 31		573						
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			72	-19160.5	-14645.5		L: Interface	60 C2PJMC		-636.2	0.0	-0.03320		-0.03320	-573.3	62.8
								C:GEN:MLS3&OMS1		575						
								Open 100508 SANDB115	115	100509 SB RCTOR	115 2		0.00000	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch					
			73	-19085.1	-14577.1		L: Interface	48 PJMWest-C		659.8	0.0	0.03457		0.03320	573.3	-60.3
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765	765	147828 MASS 765	NA					
								Open 147828 MASS 765	765	180819 CHA-NY	NA					
								Open 147827 MARCY765	765	147833 MARCY T1	345 1		0.02477	0.02955	625.5	61.6
								Open 147827 MARCY765	765	147833 MARCY T1	345 2		0.02477	0.02569	544.4	54.0
								Open 156 MCY765SW	0.0	147827 MARCY765	NA					
								Open 147838 MASS230B	230	147839 MOSES E	230 1		0.00000	-0.02762	9.5	536.7
								Open 147828 MASS 765	765	147838 MASS230B	NA					
								Open 147837 MASS230A	230	147839 MOSES E	230 1		-0.05531	0.00000	18.8	18.8
								Open 147828 MASS 765	765	147837 MASS230A	NA					
								Open 158 MS765SW2	0.0	147828 MASS 765	NA					
								Open 157 MS765SW1	0.0	147828 MASS 765	NA					
								Decrease bus 180001 BEA-DLX	13.8	generation by100.0 percent dispatch						
								Set bus 181319 CHAT G3	120	load to357.0 MW dispatch						
								Decrease bus 180002 BEA-DL	13.8	generation by100.0 percent dispatch						
								Set bus 181419 CHAT G4	120	load to357.0 MW dispatch						
			74	-19085.1	-14577.1		L: Interface	60 C2PJMC		-659.8	0.0	-0.03457		-0.03320	-573.3	60.3
								C:HQ-NY-765-New1		777						
								Open 147827 MARCY765	765	147828 MASS 765	NA					
								Open 147828 MASS 765	765	180819 CHA-NY	NA					
								Open 147827 MARCY765	765	147833 MARCY T1	345 1		-0.02477	0.02955	625.5	61.6
								Open 147827 MARCY765	765	147833 MARCY T1	345 2		-0.02477	0.02569	544.4	54.0
								Open 156 MCY765SW	0.0	147827 MARCY765	NA					

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.02762	9.5	536.7
								Open 147828 MASS 765 765 147838 MASS230B NA								
								Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05531	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A NA								
								Open 158 MS765SW2 0.0 147828 MASS 765 NA								
								Open 157 MS765SW1 0.0 147828 MASS 765 NA								
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			75	-19085.1	-14577.1		L: Interface 61 PJMC2C				659.8	0.0	0.03457	0.03320	573.3	-60.3
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 NA									
							Open 147828 MASS 765 765 180819 CHA-NY NA									
							Open 147827 MARCY765 765 147833 MARCY T1 345 1					0.02477	0.02955	625.5	61.6	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2					0.02477	0.02569	544.4	54.0	
							Open 156 MCY765SW 0.0 147827 MARCY765 NA									
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.02762	9.5	536.7	
							Open 147828 MASS 765 765 147838 MASS230B NA									
							Open 147837 MASS230A 230 147839 MOSES E 230 1					-0.05531	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A NA									
							Open 158 MS765SW2 0.0 147828 MASS 765 NA									
							Open 157 MS765SW1 0.0 147828 MASS 765 NA									
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			76	-19085.1	-14577.1		L: Interface 47 C-PJMWest				-659.8	0.0	-0.03457	-0.03320	-573.3	60.3
							C:HQ-NY-765-New1		777							
							Open 147827 MARCY765 765 147828 MASS 765 NA									
							Open 147828 MASS 765 765 180819 CHA-NY NA									
							Open 147827 MARCY765 765 147833 MARCY T1 345 1					-0.02477	0.02955	625.5	61.6	
							Open 147827 MARCY765 765 147833 MARCY T1 345 2					-0.02477	0.02569	544.4	54.0	
							Open 156 MCY765SW 0.0 147827 MARCY765 NA									
							Open 147838 MASS230B 230 147839 MOSES E 230 1					0.00000	-0.02762	9.5	536.7	
							Open 147828 MASS 765 765 147838 MASS230B NA									
							Open 147837 MASS230A 230 147839 MOSES E 230 1					0.05531	0.00000	18.8	18.8	
							Open 147828 MASS 765 765 147837 MASS230A NA									
							Open 158 MS765SW2 0.0 147828 MASS 765 NA									
							Open 157 MS765SW1 0.0 147828 MASS 765 NA									
							Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch									
							Set bus 181319 CHAT G3 120 load to357.0 MW dispatch									
							Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch									
							Set bus 181419 CHAT G4 120 load to357.0 MW dispatch									
			77	-19053.6	-14548.6	*	L: Interface 60 C2PJM				-626.3	0.0	-0.03287	-0.03320	-573.3	59.3
							C:GEN:FITZPATR1		560							
							Open 136155 SCRIBA 345 147830 JA FITZP 345 1					0.00488	0.06847	-41.2	-1345.8	
							Open 137200 EDIC 345 147830 JA FITZP 345 1					0.07704	0.00000	44.5	44.5	
							Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch									
			78	-19053.6	-14548.6	*	L: Interface 48 PJMWest-C				626.3	0.0	0.03287	0.03320	573.3	-59.3
							C:GEN:FITZPATR1		560							
							Open 136155 SCRIBA 345 147830 JA FITZP 345 1					-0.00488	0.06847	-41.2	-1345.8	
							Open 137200 EDIC 345 147830 JA FITZP 345 1					-0.07704	0.00000	44.5	44.5	
							Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch									
			79	-19053.6	-14548.6	*	L: Interface 47 C-PJMWest				-626.3	0.0	-0.03287	-0.03320	-573.3	59.3
							C:GEN:FITZPATR1		560							

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 136155 SCRIBA 345 147830 JA FITZP 345 1					0.00488	0.06847	-41.2	-1345.8
								Open 137200 EDIC 345 147830 JA FITZP 345 1					0.07704	0.00000	44.5	44.5
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch								
			80	-19053.6	-14548.6	*	L: Interface 61 PJMC2C			626.3	0.0	0.03287		0.03320	573.3	-59.3
							C:GEN:FITZPATR1		560							
								Open 136155 SCRIBA 345 147830 JA FITZP 345 1					-0.00488	0.06847	-41.2	-1345.8
								Open 137200 EDIC 345 147830 JA FITZP 345 1					-0.07704	0.00000	44.5	44.5
								Remove unit 1 from bus 147797 JAFITZ1G 24.0 887.7 MW dispatch								
			6932	-16952.4	-12642.8		L: Interface 26 ONTARIO-MICH			618.1	0.0	0.03646		0.02080	673.0	320.3
							C:128880 SHMVDCL 192 129459 SHOREH 401									
							Open 128880 SHMVDCL 192 129459 SHOREHAM 138 1						0.16836	0.09302	-325.8	-1902.7
			7041	-13902.3	-9876.4		L: Interface 62 C2PJMW			-547.2	0.0	-0.03936		-0.06833	-427.0	522.9
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.80815	-0.01807	87.3	338.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.83260	-0.00806	30.6	142.7
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						-0.85070	-0.00899	28.5	153.5
			7042	-13902.3	-9876.4		L: Interface 63 PJMW2C			547.2	0.0	0.03936		0.06833	427.0	-522.9
							C:ETHS/NWES/LLGD1		649							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.80815	-0.01807	87.3	338.6
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.83260	-0.00806	30.6	142.7
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.85070	-0.00899	28.5	153.5
			7055	-9943.3	-6285.7		L: Interface 62 C2PJMW			-505.7	0.0	-0.05086		-0.06833	-427.0	252.4
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.66700	-0.01807	87.3	267.0
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.67137	-0.00806	30.6	110.8
			7056	-9943.3	-6285.7		L: Interface 63 PJMW2C			505.7	0.0	0.05086		0.06833	427.0	-252.4
							C:SER:ETHS/NWES1		607							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.66700	-0.01807	87.3	267.0
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.67137	-0.00806	30.6	110.8
			7057	-9928.5	-6272.2		L: Interface 63 PJMW2C			504.8	0.0	0.05084		0.06833	427.0	-251.4
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						0.00108	0.00040	-15.4	-19.3
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.66859	-0.01807	87.3	266.7
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						0.01711	-0.00158	-54.7	-39.0
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						0.66694	-0.00806	30.6	110.6
			7058	-9928.5	-6272.2		L: Interface 62 C2PJMW			-504.8	0.0	-0.05084		-0.06833	-427.0	251.4
							C:SER:C398/NWES1		606							
							Open 409 GROVER 230 200675 E.TWANDA 230 1						-0.00108	0.00040	-15.4	-19.3
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.66859	-0.01807	87.3	266.7
							Open 381 TOWANDA 115 200675 E.TWANDA 230 1						-0.01711	-0.00158	-54.7	-39.0
							Open 130836 N.WAV115 115 200676 E.SAYRE 115 1						-0.66694	-0.00806	30.6	110.6
			7059	-9166.7	-5581.2		L: Interface 62 C2PJMW			-489.9	0.0	-0.05344		-0.06833	-427.0	199.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						-0.52453	-0.01807	87.3	253.0
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						-0.60134	-0.00899	28.5	110.9
			7060	-9166.7	-5581.2		L: Interface 63 PJMW2C			489.9	0.0	0.05344		0.06833	427.0	-199.4
							C:ETHS/LLGD1		650							
							Open 130763 HILSD230 230 200675 E.TWANDA 230 1						0.52453	-0.01807	87.3	253.0
							Open 130807 GOUDY115 115 200680 LAUREL L 115 1						0.60134	-0.00899	28.5	110.9
			7061	-9166.1	-5580.7		L: Interface 52 PJMEast-G			-276.2	0.0	-0.03013		0.00000	0.3	0.3
							C:SIN:2801		679							
							Open 126262 BUCHANAN N 345 126267 E VIEW 2N 345 1						-0.19720	0.13360	1160.8	-63.8
							Open 126267 E VIEW 2N 345 126298 SPRBROOK 345 1						-0.02408	0.13652	959.3	-292.0
							Open 126267 E VIEW 2N 345 126378 EASTVIEW 138 1						-0.38058	0.00000	2.0	2.0
							Open 126262 BUCHANAN N 345 126360 BUCHNTA5 138 1						-0.17350	0.00287	136.8	110.5
			7062	-9166.1	-5580.7		L: Interface 51 G-PJMEast			276.2	0.0	0.03013		0.00000	-0.3	-0.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:SIN:2801	679							
								Open 126262 BUCHANAN N 345 126267 E VIEW 2N	345 1				0.19720	0.13360	1160.8	-63.8
								Open 126267 E VIEW 2N 345 126298 SPRBROOK	345 1				0.02408	0.13652	959.3	-292.0
								Open 126267 E VIEW 2N 345 126378 EASTVIEW	138 1				0.38058	0.00000	2.0	2.0
								Open 126262 BUCHANAN N 345 126360 BUCHNTA5	138 1				0.17350	0.00287	136.8	110.5
			7063	-8760.5	-5212.9		L: Interface 62 C2BJMW				-598.6	0.0	-0.06833	-0.06833	-427.0	171.6
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW	dispatch					
			7064	-8760.5	-5212.9		L: Interface 63 PJMW2C				598.6	0.0	0.06833	0.06833	427.0	-171.6
								C:GEN:9 MI PT21	562							
								Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW	dispatch					
			7065	-8474	-4953.1		L: Interface 63 PJMW2C				598.2	0.0	0.07060	0.06833	427.0	-152.0
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765	NA							
								Open 147828 MASS 765 765 180819 CHA-NY	NA							
								Open 147827 MARCY765 765 147833 MARCY T1	345 1				0.04111	0.02955	625.5	375.1
								Open 147827 MARCY765 765 147833 MARCY T1	345 2				0.04111	0.02569	544.4	326.7
								Open 156 MCY765SW 0.0 147827 MARCY765	NA							
								Open 147838 MASS230B 230 147839 MOSES E	230 1				0.00000	-0.02762	9.5	243.6
								Open 147828 MASS 765 765 147838 MASS230B	NA							
								Open 147837 MASS230A 230 147839 MOSES E	230 1				-0.11541	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765	NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			7066	-8474	-4953.1		L: Interface 62 C2BJMW				-598.2	0.0	-0.07060	-0.06833	-427.0	152.0
								C:HQ-NY-765-New1	777							
								Open 147827 MARCY765 765 147828 MASS 765	NA							
								Open 147828 MASS 765 765 180819 CHA-NY	NA							
								Open 147827 MARCY765 765 147833 MARCY T1	345 1				-0.04111	0.02955	625.5	375.1
								Open 147827 MARCY765 765 147833 MARCY T1	345 2				-0.04111	0.02569	544.4	326.7
								Open 156 MCY765SW 0.0 147827 MARCY765	NA							
								Open 147838 MASS230B 230 147839 MOSES E	230 1				0.00000	-0.02762	9.5	243.6
								Open 147828 MASS 765 765 147838 MASS230B	NA							
								Open 147837 MASS230A 230 147839 MOSES E	230 1				0.11541	0.00000	18.8	18.8
								Open 147828 MASS 765 765 147837 MASS230A	NA							
								Open 158 MS765SW2 0.0 147828 MASS 765	NA							
								Open 157 MS765SW1 0.0 147828 MASS 765	NA							
								Decrease bus 180001 BEA-DLX 13.8 generation by100.0 percent dispatch								
								Set bus 181319 CHAT G3 120 load to357.0 MW dispatch								
								Decrease bus 180002 BEA-DL 13.8 generation by100.0 percent dispatch								
								Set bus 181419 CHAT G4 120 load to357.0 MW dispatch								
			7067	-8348.7	-4839.3		L: Interface 63 PJMW2C				526.1	0.0	0.06302	0.06833	427.0	-143.5
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				-0.23866	0.01791	-391.0	-540.5
								Open 135277 FALCONER 115 200579 WARREN	115 1				-0.14067	0.00734	-41.6	-102.9
			7068	-8348.7	-4839.3		L: Interface 62 C2BJMW				-526.1	0.0	-0.06302	-0.06833	-427.0	143.5
								C:SER:HC-SR_37&W-F_1711	601							
								Open 135398 SW345 345 200769 HOMER CY	345 1				0.23866	0.01791	-391.0	-540.5
								Open 135277 FALCONER 115 200579 WARREN	115 1				0.14067	0.00734	-41.6	-102.9
			7069	-8032.8	-4552.9		L: Interface 62 C2BJMW				-271.3	0.0	-0.03377	-0.06833	-427.0	121.9
								C:130753 FRASR345 345 130755 OAKDL3	200							
								Open 130753 FRASR345 345 130755 OAKDL345	345 1				-0.24887	-0.13886	-625.6	489.8

From	To	Transfer Level	N	FCITC	Interface-1	Prag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			7070	-8032.8	-4552.9		L: Interface 63 PJMW2C			271.3	0.0	0.03377		0.06833	427.0	-121.9
							C:130753 FRASR345	345 130755 OAKDL3	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.24887	-0.13886	-625.6	489.8
			7071	-7969.6	-4495.6		L: Interface 62 C2PJMW			-534.5	0.0	-0.06707		-0.06833	-427.0	117.6
							C:GEN:FITZPATR1		560							
							Open 136155 SCRIBA	345 147830 JA FITZP	345 1				0.01841	0.06847	-41.2	-586.9
							Open 137200 EDIC	345 147830 JA FITZP	345 1				0.15113	0.00000	44.5	44.5
							Remove unit 1 from bus 147797 JAFITZ1G	24.0 887.7 MW dispatch								
			7072	-7969.6	-4495.6		L: Interface 63 PJMW2C			534.5	0.0	0.06707		0.06833	427.0	-117.6
							C:GEN:FITZPATR1		560							
							Open 136155 SCRIBA	345 147830 JA FITZP	345 1				-0.01841	0.06847	-41.2	-586.9
							Open 137200 EDIC	345 147830 JA FITZP	345 1				-0.15113	0.00000	44.5	44.5
							Remove unit 1 from bus 147797 JAFITZ1G	24.0 887.7 MW dispatch								
			7073	-7942.8	-4471.3	*	L: Interface 62 C2PJMW			-511.8	0.0	-0.06444		-0.06833	-427.0	115.8
							C:135398 SW345	345 200769 HOMER	380							
							Open 135398 SW345	345 200769 HOMER CY	345 1				0.21707	0.01791	-391.0	-533.3
			7074	-7942.8	-4471.3	*	L: Interface 63 PJMW2C			511.8	0.0	0.06444		0.06833	427.0	-115.8
							C:135398 SW345	345 200769 HOMER	380							
							Open 135398 SW345	345 200769 HOMER CY	345 1				-0.21707	0.01791	-391.0	-533.3
			10565	-6047.6	-2752.3		L: Interface 52 PJMEast-G			248.1	0.0	0.04103		0.00000	0.3	0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.21293	0.19269	1163.8	-1.5
			10566	-6047.6	-2752.3		L: Interface 51 G-PJMEast			-248.1	0.0	-0.04103		0.00000	-0.3	-0.3
							C:SIN:4401		684							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.21293	0.19269	1163.8	-1.5
			10567	-6047.6	-2752.3		L: Interface 51 G-PJMEast			-248.1	0.0	-0.04103		0.00000	-0.3	-0.3
							C:125001 ROCK TAV	345 126297 RAMAPO	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.21293	0.19269	1163.8	-1.5
			10568	-6047.6	-2752.3		L: Interface 52 PJMEast-G			248.1	0.0	0.04103		0.00000	0.3	0.3
							C:125001 ROCK TAV	345 126297 RAMAPO	7							
							Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				0.21293	0.19269	1163.8	-1.5
			10585	-5591.8	-2338.9		L:129421 HOLBROOK	138 129448 PT JEFF1	138 1	682.5	442.0	0.04301		0.02426	385.7	250.0
							C:129421 HOLBROOK	138 129449 PT JEF	477							
							Open 129421 HOLBROOK	138 129449 PT JEFF2	138 1				0.79583	0.02355	372.9	241.2
			10586	-5518.9	-2272.8		L:129421 HOLBROOK	138 129449 PT JEFF2	138 1	677.8	442.0	0.04273		0.02355	372.9	242.9
							C:129421 HOLBROOK	138 129448 PT JEF	476							
							Open 129421 HOLBROOK	138 129448 PT JEFF1	138 1				0.79059	0.02426	385.7	251.8
			10589	-4839.7	-1656.8		L: Interface 55 PJME-NYEnoRE			1467.6	1287.0	0.03733		0.00000	1299.5	1299.5
							C:130753 FRASR345	345 130755 OAKDL3	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				-0.26880	-0.13886	-625.6	46.4
			10590	-4839.7	-1656.8		L: Interface 56 NYE-PJMENoRE			-1467.6	-1287.0	-0.03733		0.00000	-1299.5	-1299.5
							C:130753 FRASR345	345 130755 OAKDL3	200							
							Open 130753 FRASR345	345 130755 OAKDL345	345 1				0.26880	-0.13886	-625.6	46.4
			10591	-4277	-1146.4		L: Interface 52 PJMEast-G			-172.9	0.0	-0.04042		0.00000	0.3	0.3
							C:SIN:2301		677							
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.26512	-0.15066	-567.5	76.9
							Open 126262 BUCHANAN N	345 126360 BUCHNTA5	138 1				-0.16620	0.00287	136.8	124.5
			10592	-4277	-1146.4		L: Interface 51 G-PJMEast			172.9	0.0	0.04042		0.00000	-0.3	-0.3
							C:SIN:2301		677							
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				-0.26512	-0.15066	-567.5	76.9
							Open 126262 BUCHANAN N	345 126360 BUCHNTA5	138 1				0.16620	0.00287	136.8	124.5
			10593	-3758.5	-676.2		L: Interface 52 PJMEast-G			-144.6	0.0	-0.03846		0.00000	0.3	0.3
							C:126263 BUCHANAN S	345 126290 LADENT	86							
							Open 126263 BUCHANAN S	345 126290 LADENTWN	345 1				0.25528	-0.15066	-567.5	-1.3
			10594	-3758.5	-676.2		L: Interface 51 G-PJMEast			144.6	0.0	0.03846		0.00000	-0.3	-0.3
							C:126263 BUCHANAN S	345 126290 LADENT	86							





From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			10612	-182.5	2567.2		L:129361	Open 129339 KINGS HWY 138 129427 HOLTS GT 138 1		757.2	678.0	0.43398	-0.78508	0.00514	-194.9	-196.1
								C:129337 HAUPAGUE 138 129356 PILGRM 444								
			10613	-182.5	2567.2		L:129361	Open 129337 HAUPAGUE 138 129356 PILGRM P 138 1		757.2	678.0	0.43398	-0.68569	0.00000	-192.5	-192.5
								C:129355 PILGRIM 138 129356 PILGRM 456								
			10614	-182.1	2567.6		L:129361	Open 129355 PILGRIM 138 129356 PILGRM P 138 1		752.1	678.0	0.40686	0.68569	0.00000	192.5	192.5
								C:129093 PTJFEG4 20.0 129449 PT JEF 512								
			10615	-167.5	2580.8	*	L:129361	Open 129093 PTJFEG4 20.0 129449 PT JEFF2 138 1					-0.80472	0.03370	-157.7	-163.8
								C:129071 CAITH-GT 16.5 129418 CAITHN 540								
								Open 129071 CAITH-GT 16.5 129418 CAITHNESS1 138 1					-0.80755	0.04228	-148.3	-155.4
			10621	-60.8	2677.6		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1341.7	-1331.0	-0.17567				
								Base Case								
			10623	-18.5	2716		L: Interface	64 LIPA Export		-2732.7	-2716.0	-0.90698				
								Base Case								
			10624	-18.5	2716		L: Interface	28 LIPA Import		2732.7	2716.0	0.90698				
								Base Case								
			10639	62.9	2789.8		L: Interface	14 Leeds-PV		2640.4	2662.0	0.34397				
								Base Case								
			12353	156.4	2874.6		L: Interface	49 C-PJMCentral		6.7	0.0	-0.04254		-0.03513	146.4	140.9
								C:SER:HC-WC_30&W-F_1711 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23865	-0.03320	-573.3	-578.5	
								Open 135277 FALCONER 115 200579 WARREN 115 1				0.06958	0.00734	-41.6	-40.5	
			12354	156.4	2874.6		L: Interface	50 PJMCentral-C		-6.7	0.0	0.04254		0.03513	-146.4	-140.9
								C:SER:HC-WC_30&W-F_1711 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23865	-0.03320	-573.3	-578.5	
								Open 135277 FALCONER 115 200579 WARREN 115 1				-0.06958	0.00734	-41.6	-40.5	
			NA	156.4	2874.6	R	L: Interface	50 PJMCentral-C		-6.7	0.0	0.04254		0.03513	-146.4	-140.9
								C:SER:HC-WC_30&W-F_1711 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.23865	-0.03320	-573.3	-578.5	
								Open 135277 FALCONER 115 200579 WARREN 115 1				-0.06958	0.00734	-41.6	-40.5	
			NA	156.4	2874.6	R	L: Interface	49 C-PJMCentral		6.7	0.0	-0.04254		-0.03513	146.4	140.9
								C:SER:HC-WC_30&W-F_1711 602								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.23865	-0.03320	-573.3	-578.5	
								Open 135277 FALCONER 115 200579 WARREN 115 1				0.06958	0.00734	-41.6	-40.5	
			NA	168.6	2885.7	R	L: Interface	50 PJMCentral-C		-6.7	0.0	0.03993		0.03513	-146.4	-140.4
								C:SER:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22575	-0.03320	-573.3	-578.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33356	-0.00806	30.6	29.2	
			NA	168.6	2885.7	R	L: Interface	49 C-PJMCentral		6.7	0.0	-0.03993		-0.03513	146.4	140.4
								C:SER:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22575	-0.03320	-573.3	-578.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33356	-0.00806	30.6	29.2	
			12361	168.6	2885.7		L: Interface	49 C-PJMCentral		6.7	0.0	-0.03993		-0.03513	146.4	140.4
								C:SER:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				0.22575	-0.03320	-573.3	-578.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.33356	-0.00806	30.6	29.2	
			12362	168.6	2885.7		L: Interface	50 PJMCentral-C		-6.7	0.0	0.03993		0.03513	-146.4	-140.4
								C:SER:HCWC/NWES1 608								
								Open 130757 WATRC345 345 200769 HOMER CY 345 1				-0.22575	-0.03320	-573.3	-578.9	
								Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.33356	-0.00806	30.6	29.2	
			12365	179.7	2895.7		L:126266	DUNWODIE 345 128835 SHORE RD 345 1		473.3	653.0	1.00000				
								Base Case								
			NA	182.6	2898.3	R	L:129341	NRTHPT1 138 129355 PILGRIM 138 1		504.3	495.0	-0.05110				

From	To	Transfer Level	N	FCITC	Interface-1	Prag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								Base Case									
			12371	192.1	2907		L:126294	PLTVLLEY 345 137455 ATHENS 345 1			-1298.7	-1331.0	-0.16830				
								Base Case									
		NA		232.2	2943.3	R	L: Interface	50 PJMCentral-C			-10.0	0.0	0.04302		0.03513	-146.4	-138.2
								C:130757 WATRC345	345 200769 HOMER	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23788	-0.03320	-573.3	-581.0	
		NA		232.2	2943.3	R	L: Interface	49 C-PJMCentral			10.0	0.0	-0.04302		-0.03513	146.4	138.2
								C:130757 WATRC345	345 200769 HOMER	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23788	-0.03320	-573.3	-581.0	
			12384	232.2	2943.3		L: Interface	50 PJMCentral-C			-10.0	0.0	0.04302		0.03513	-146.4	-138.2
								C:130757 WATRC345	345 200769 HOMER	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			-0.23788	-0.03320	-573.3	-581.0	
			12386	232.2	2943.3		L: Interface	49 C-PJMCentral			10.0	0.0	-0.04302		-0.03513	146.4	138.2
								C:130757 WATRC345	345 200769 HOMER	374							
								Open 130757 WATRC345	345 200769 HOMER CY	345 1			0.23788	-0.03320	-573.3	-581.0	
		NA		237	2947.7	R	L:129346	NRTHPT3 138 129355 PILGRIM 138 2			507.2	495.0	-0.05134				
								Base Case									
			12387	247.4	2957.1		L: Interface	42 K-to-I			-1113.6	-1361.0	-1.00000				
								Base Case									
			12388	247.4	2957.1		L: Interface	41 I-to-K			1113.6	1361.0	1.00000				
								Base Case									
			12392	352.5	3052.4		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1651.0	-1725.0	-0.20981		-0.17567	-1341.7	-1403.6
								C:125000 HURLEY 3	345 137451 LEEDS	3							
								Open 125000 HURLEY 3	345 137451 LEEDS 3	345 1			0.32997	-0.10347	-937.6	-974.0	
			12393	370.1	3068.4		L:129310	NEWBRGE 138 129361 RULND RD 138 1			266.8	339.0	0.19506		0.15055	205.9	261.6
								C:129310 NEWBRGE	138 129361 RULND	434							
								Open 129310 NEWBRGE	138 129361 RULND RD	138 2			0.29566	0.15055	205.9	261.6	
			12394	370.1	3068.4		L:129310	NEWBRGE 138 129361 RULND RD 138 2			266.8	339.0	0.19506		0.15055	205.9	261.6
								C:129310 NEWBRGE	138 129361 RULND	433							
								Open 129310 NEWBRGE	138 129361 RULND RD	138 1			0.29566	0.15055	205.9	261.6	
			12395	379.2	3076.6		L:129310	NEWBRGE 138 129361 RULND RD 138 2			205.9	263.0	0.15055				
								Base Case									
			12396	379.2	3076.6		L:129310	NEWBRGE 138 129361 RULND RD 138 1			205.9	263.0	0.15055				
								Base Case									
			12397	401.2	3096.6		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1637.5	-1725.0	-0.21813		-0.17567	-1341.7	-1412.2
								C:SIN:4301		683							
								Open 125002 ROSETON	345 126281 FISHKILL	345 1			-0.18923	0.22436	1563.2	1653.2	
			12398	401.2	3096.6		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1637.5	-1725.0	-0.21813		-0.17567	-1341.7	-1412.2
								C:125002 ROSETON	345 126281 FISHKI	10							
								Open 125002 ROSETON	345 126281 FISHKILL	345 1			-0.18923	0.22436	1563.2	1653.2	
			12399	402.8	3098.1		L:146758	CHESTER 138 146773 SGRLF138 138 1			294.7	317.0	0.05527		0.03081	147.0	159.4
								C:125001 ROCK TAV	345 126297 RAMAPO	7							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.12692	0.19269	1163.8	1241.4	
			12400	402.8	3098.1		L:146758	CHESTER 138 146773 SGRLF138 138 1			294.7	317.0	0.05527		0.03081	147.0	159.4
								C:SIN:4401		684							
								Open 125001 ROCK TAV	345 126297 RAMAPO	345 1			0.12692	0.19269	1163.8	1241.4	
			12401	409.1	3103.8		L:129310	NEWBRGE 138 129361 RULND RD 138 1			260.9	339.0	0.19097		0.15055	205.9	267.5
								C:129310 NEWBRGE	138 129361 RULND	435							
								Open 129310 NEWBRGE	138 129361 RULND RD	138 3			0.28947	0.13965	189.8	247.0	
			12402	409.1	3103.8		L:129310	NEWBRGE 138 129361 RULND RD 138 2			260.9	339.0	0.19097		0.15055	205.9	267.5
								C:129310 NEWBRGE	138 129361 RULND	435							
								Open 129310 NEWBRGE	138 129361 RULND RD	138 3			0.28947	0.13965	189.8	247.0	
			12403	419.3	3113		L:129310	NEWBRGE 138 129361 RULND RD 138 2			275.9	339.0	0.15055		0.15055	205.9	269.0
								C:129343 NRTHPT P	138 129344 NRTHPT	451							
								Open 129343 NRTHPT P	138 129344 NRTHPT1	138 1			0.15635	0.00000	447.4	447.4	
			12404	419.3	3113		L:129310	NEWBRGE 138 129361 RULND RD 138 1			275.9	339.0	0.15055		0.15055	205.9	269.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:129343 NRTHPT P 138 129344 NRTHPT 451								
								Open 129343 NRTHPT P 138 129344 NRTHPT1	138 1				0.15635	0.00000	447.4	447.4
			12405	438.8	3130.7		L:129337 HAUPAGUE 138 129356 PILGRM P 138 1			-383.8	-442.0	-0.13276		0.00000	-192.5	-192.5
								C:129361 RULND RD 138 129421 HOLBRO 461								
								Open 129361 RULND RD 138 129421 HOLBROOK	138 1				-0.30591	0.43398	625.2	815.6
			12406	489.1	3176.3		L: Interface 50 PJMCentral-C			-16.6	0.0	0.03399		0.03513	-146.4	-129.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.14514	-0.03320	-573.3	-589.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.20635	-0.02887	243.8	229.7
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.14913	0.00000	25.3	25.3
			12407	489.1	3176.3		L: Interface 49 C-PJMCentral			16.6	0.0	-0.03399		-0.03513	146.4	129.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.14514	-0.03320	-573.3	-589.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.20635	-0.02887	243.8	229.7
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.14913	0.00000	25.3	25.3
			NA	489.1	3176.3	R	L: Interface 49 C-PJMCentral			16.6	0.0	-0.03399		-0.03513	146.4	129.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				0.14514	-0.03320	-573.3	-589.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				-0.20635	-0.02887	243.8	229.7
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				0.14913	0.00000	25.3	25.3
			NA	489.1	3176.3	R	L: Interface 50 PJMCentral-C			-16.6	0.0	0.03399		0.03513	-146.4	-129.2
								C:BUS:WATERCURE_3451	633							
								Open 130757 WATRC345 345 200769 HOMER CY	345 1				-0.14514	-0.03320	-573.3	-589.6
								Open 130757 WATRC345 345 130768 WATRC230	230 1				0.20635	-0.02887	243.8	229.7
								Open 130755 OAKDL345 345 130757 WATRC345	345 1				-0.14913	0.00000	25.3	25.3
			12410	490.3	3177.4		L:128835 SHORE RD 345 129293 SHORE RD 138 1			236.4	482.0	0.50089				
								Base Case								
			12411	493.7	3180.5		L:128835 SHORE RD 345 129293 SHORE RD 138 2			235.6	482.0	0.49911				
								Base Case								
			12412	499	3185.3		L:129355 PILGRIM 138 129356 PILGRM P 138 1			383.8	450.0	0.13276		0.00000	192.5	192.5
								C:129361 RULND RD 138 129421 HOLBRO 461								
								Open 129361 RULND RD 138 129421 HOLBROOK	138 1				0.30591	0.43398	625.2	841.8
			12413	501.4	3187.5		L: Interface 14 Leeds-PV			3244.1	3450.0	0.41060		0.34397	2640.4	2812.8
								C:125000 HURLEY 3 345 137451 LEEDS 3								
								Open 125000 HURLEY 3 345 137451 LEEDS 3	345 1				-0.64397	-0.10347	-937.6	-989.5
			12414	505.7	3191.4		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			198.4	379.0	0.35707		0.35707	46.4	227.0
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK	345 1				0.23745	0.00000	640.3	640.3
			12415	506.4	3192.1		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			198.2	379.0	0.35707		0.35707	46.4	227.2
								C:128830 HMP HRBR 345 147857 DVNPT 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK	345 1				-0.23745	0.00000	-639.2	-639.2
			12416	507.5	3193		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			197.8	379.0	0.35707		0.35707	46.4	227.6
								C:128824 EGC DUM 345 128825 EGC PA 394								
								Open 128824 EGC DUM 345 128825 EGC PAR	345 1				0.23745	0.00000	637.6	637.6
			12417	507.5	3193		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			197.8	379.0	0.35707		0.35707	46.4	227.6
								C:128824 EGC DUM 345 128830 HMP HR 395								
								Open 128824 EGC DUM 345 128830 HMP HRBR	345 1				-0.23745	0.00000	-637.6	-637.6
			12418	507.5	3193		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			197.8	379.0	0.35707		0.35707	46.4	227.6
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.23709	0.00000	641.9	641.9
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00071	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.22785	0.00000	4.6	4.6

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12419	507.5	3193		L:129281	GLNWD GT 138 129288 ROSLYN 138 1		197.8	379.0	0.35707		0.35707	46.4	227.6
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.23709	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00071	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.22785	0.00000	4.6	4.6
			12420	518.3	3202.8		L:129283	GLNWD SO 138 129588 GLNWD SO 69.0 1		94.0	118.0	0.04639				
								Base Case								
			12421	529.3	3212.8		L:129310	NEWBRGE 138 129361 RULND RD 138 1		268.8	339.0	0.13259		0.15055	205.9	285.6
								C:128880 SHMHVDCL 192 129459 SHOREH 401								
								Open 128880 SHMHVDCL 192 129459 SHOREHAM	138 1				-0.19307	0.09302	-325.8	-276.6
			12422	529.3	3212.8		L:129310	NEWBRGE 138 129361 RULND RD 138 2		268.8	339.0	0.13259		0.15055	205.9	285.6
								C:128880 SHMHVDCL 192 129459 SHOREH 401								
								Open 128880 SHMHVDCL 192 129459 SHOREHAM	138 1				-0.19307	0.09302	-325.8	-276.6
			12423	529.6	3213.1		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.9	-339.0	-0.35707		-0.35707	2.1	-187.0
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK	345 1				-0.23745	0.00000	640.3	640.3
			12424	530.4	3213.8		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.6	-339.0	-0.35707		-0.35707	2.1	-187.2
								C:128830 HMP HRBR 345 147857 DVNPT 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK	345 1				0.23745	0.00000	-639.2	-639.2
			12425	531.4	3214.7		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.2	-339.0	-0.35707		-0.35707	2.1	-187.6
								C:128824 EGC DUM 345 128830 HMP HR 395								
								Open 128824 EGC DUM 345 128830 HMP HRBR	345 1				0.23745	0.00000	-637.6	-637.6
			12426	531.4	3214.7		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.2	-339.0	-0.35707		-0.35707	2.1	-187.6
								C:128824 EGC DUM 345 128825 EGC PA 394								
								Open 128824 EGC DUM 345 128825 EGC PAR	345 1				-0.23745	0.00000	637.6	637.6
			12427	531.4	3214.7		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.2	-339.0	-0.35707		-0.35707	2.1	-187.6
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				-0.23709	0.00000	641.9	641.9
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				0.00071	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				0.22785	0.00000	4.6	4.6
			12428	531.4	3214.7		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-149.2	-339.0	-0.35707		-0.35707	2.1	-187.6
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				-0.23709	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				0.00071	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				0.22785	0.00000	4.6	4.6
			12429	544.3	3226.4		L: Interface	14 Leeds-PV		3217.7	3450.0	0.42683		0.34397	2640.4	2827.6
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1				0.36932	0.22436	1563.2	1685.3
			12430	544.3	3226.4		L: Interface	14 Leeds-PV		3217.7	3450.0	0.42683		0.34397	2640.4	2827.6
								C:125002 ROSETON 345 126281 FISHKI 10								
								Open 125002 ROSETON 345 126281 FISHKILL	345 1				0.36932	0.22436	1563.2	1685.3
			12431	571.8	3251.3		L:129265	CARLE PL 138 129283 GLNWD SO 138 1		-179.7	-379.0	-0.34851		-0.34851	-31.4	-230.7
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK	345 1				-0.23165	0.00000	640.3	640.3



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 128824 EGC DUM 345 128825 EGC PAR NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					-0.00049	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					-0.50134	0.00000	4.6	4.6
			12446	600.5	3277.4		L:126266	DUNWODIE 345 128835 SHORE RD 345 1	815.5	1416.0	1.00000			1.00000	473.3	1073.8
								C:BUS:EGC_3451 623								
								Open 126299 REACBUS 345 147857 DVNPT NK NA								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					0.53634	0.00000	641.9	641.9
								Open 128830 HMP HRBR 345 147857 DVNPT NK NA								
								Open 128824 EGC DUM 345 128830 HMP HRBR NA								
								Open 128824 EGC DUM 345 128825 EGC PAR NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					-0.00049	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					-0.50134	0.00000	4.6	4.6
			12447	600.6	3277.5		L:126266	DUNWODIE 345 128835 SHORE RD 345 1	815.4	1416.0	1.00000			1.00000	473.3	1073.9
								C:128824 EGC DUM 345 128825 EGC PA 394								
								Open 128824 EGC DUM 345 128825 EGC PAR 345 1					0.53659	0.00000	637.6	637.6
			12448	600.6	3277.5		L:126266	DUNWODIE 345 128835 SHORE RD 345 1	815.4	1416.0	1.00000			1.00000	473.3	1073.9
								C:128824 EGC DUM 345 128830 HMP HR 395								
								Open 128824 EGC DUM 345 128830 HMP HRBR 345 1					-0.53659	0.00000	-637.6	-637.6
			12449	604.3	3280.8		L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1	82.8	118.0	0.05817					
								Base Case								
			12450	606.2	3282.6		L:129270	E.G.C. 138 129288 ROSLYN 138 1	-40.7	-339.0	-0.49203		-0.35707	2.1	-214.3	
								C:129283 GLNWD SO 138 129293 SHORE 428								
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					0.34178	-0.39490	-125.4	-364.8
			12451	656.1	3327.8		L:129310	NEWBRGE 138 129361 RULND RD 138 1	247.0	339.0	0.14015		0.15055	205.9	304.7	
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					-0.19190	0.05418	-214.3	-178.8
			12452	656.1	3327.8		L:129310	NEWBRGE 138 129361 RULND RD 138 2	247.0	339.0	0.14015		0.15055	205.9	304.7	
								C:129076 HOLTS1-5 13.8 129427 HOLTS 510								
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT 138 1					-0.19190	0.05418	-214.3	-178.8
			12453	657	3328.6		L:126294	PLTVLLEY 345 137455 ATHENS 345 1	-1593.1	-1725.0	-0.20079		-0.16830	-1298.7	-1409.2	
								C:125000 HURLEY 3 345 137451 LEEDS 3								
								Open 125000 HURLEY 3 345 137451 LEEDS 3 345 1					0.31401	-0.10347	-937.6	-1005.6
			12454	661.1	3332.3		L:129281	GLNWD GT 138 129288 ROSLYN 138 1	58.0	379.0	0.48562		0.35707	46.4	282.4	
								C:129265 CARLE PL 138 129283 GLNWD 417								
								Open 129265 CARLE PL 138 129283 GLNWD SO 138 1					-0.36886	-0.34851	-31.4	-261.8
			12455	661.6	3332.8		L:129265	CARLE PL 138 129283 GLNWD SO 138 1	-55.0	-379.0	-0.48970		-0.34851	-31.4	-262.0	
								C:129282 GLNWD NO 138 129293 SHORE 427								
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					0.34002	-0.41524	-69.5	-344.2
			12456	671	3341.3		L:129281	GLNWD GT 138 129288 ROSLYN 138 1	139.4	379.0	0.35707		0.35707	46.4	286.0	
								C:128842 NEPTCONV 345 128847 NWBRG 398								
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.13960	0.00000	-666.2	-666.2
			12457	673	3343.2		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1	-138.7	-379.0	-0.35707		-0.35707	13.4	-227.0	
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK 345 1					-0.23745	0.00000	640.3	640.3
			12458	673.6	3343.7		L:129310	NEWBRGE 138 129361 RULND RD 138 1	242.4	339.0	0.14336		0.15055	205.9	307.3	
								C:129024 NRTPTG1 22.0 129346 NRTHPT 505								
								Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1					-0.11389	0.06310	-320.6	-278.1
			12459	673.6	3343.7		L:129310	NEWBRGE 138 129361 RULND RD 138 2	242.4	339.0	0.14336		0.15055	205.9	307.3	
								C:129024 NRTPTG1 22.0 129346 NRTHPT 505								
								Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1					-0.11389	0.06310	-320.6	-278.1
			12460	673.8	3343.9		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1	-138.4	-379.0	-0.35707		-0.35707	13.4	-227.2	
								C:128830 HMP HRBR 345 147857 DVNPT 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1					0.23745	0.00000	-639.2	-639.2
			12461	674.2	3344.3		L:129310	NEWBRGE 138 129361 RULND RD 138 2	242.3	339.0	0.14339		0.15055	205.9	307.4	
								C:129025 NRTPTG2 22.0 129341 NRTHPR 506								
								Open 129025 NRTPTG2 22.0 129341 NRTHPR1 138 1					-0.11348	0.06310	-320.8	-278.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			12462	674.2	3344.3		L:129310	NEWBRGE 138 129361 RULND RD 138 1		242.3	339.0	0.14339		0.15055	205.9	307.4
								C:129025 NRTPTG2 22.0 129341 NRTHPR	506							
								Open 129025 NRTPTG2 22.0 129341 NRTHPR1	138 1			-0.11348	0.06310	-320.8	-278.3	
			12463	674.9	3344.8		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1		-138.0	-379.0	-0.35707		-0.35707	13.4	-227.6
								C:128824 EGC DUM 345 128830 HMP HR	395							
								Open 128824 EGC DUM 345 128830 HMP HRBR	345 1			0.23745	0.00000	-637.6	-637.6	
			12464	674.9	3344.8		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1		-138.0	-379.0	-0.35707		-0.35707	13.4	-227.6
								C:128824 EGC DUM 345 128825 EGC PA	394							
								Open 128824 EGC DUM 345 128825 EGC PAR	345 1			-0.23745	0.00000	637.6	637.6	
			12465	674.9	3344.8		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1		-138.0	-379.0	-0.35707		-0.35707	13.4	-227.6
								C:SPRN-BRK-3451	778							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY			-0.23709	0.00000	641.9	641.9	
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1			0.00071	0.00000	-318.6	-318.6	
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1			0.22785	0.00000	4.6	4.6	
			12466	674.9	3344.8		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1		-138.0	-379.0	-0.35707		-0.35707	13.4	-227.6
								C:BUS:EGC_3451	623							
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY			-0.23709	0.00000	641.9	641.9	
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1			0.00071	0.00000	-318.6	-318.6	
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1			0.22785	0.00000	4.6	4.6	
			12467	678.6	3348.3		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-9.4	-339.0	-0.48562		-0.35707	2.1	-240.2
								C:129265 CARLE PL 138 129283 GLNWD	417							
								Open 129265 CARLE PL 138 129283 GLNWD SO	138 1			0.36886	-0.34851	-31.4	-267.9	
			12468	681.5	3350.9		L:129310	NEWBRGE 138 129361 RULND RD 138 3		189.8	285.0	0.13965				
								Base Case								
			12469	687.1	3355.9		L:129310	NEWBRGE 138 129361 RULND RD 138 1		218.8	339.0	0.17498		0.15055	205.9	309.4
								C:129305 LCST GRV 138 129315 SYOSSE	431							
								Open 129305 LCST GRV 138 129315 SYOSSET	138 1			0.17886	0.13659	71.8	165.7	
			12470	687.1	3355.9		L:129310	NEWBRGE 138 129361 RULND RD 138 2		218.8	339.0	0.17498		0.15055	205.9	309.4
								C:129305 LCST GRV 138 129315 SYOSSE	431							
								Open 129305 LCST GRV 138 129315 SYOSSET	138 1			0.17886	0.13659	71.8	165.7	
			12471	687.4	3356.2 *		L:129310	NEWBRGE 138 129361 RULND RD 138 2		235.5	339.0	0.15055		0.15055	205.9	309.4
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			12472	687.4	3356.2 *		L:129310	NEWBRGE 138 129361 RULND RD 138 1		235.5	339.0	0.15055		0.15055	205.9	309.4
								C:SIN:2501	678							
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.1	-0.1	
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch							
			12477	692.1	3360.4		L:129265	CARLE PL 138 129283 GLNWD SO 138 1		-48.2	-379.0	-0.47796		-0.34851	-31.4	-272.6
								C:129281 GLNWD GT 138 129288 ROSLYN	426							
								Open 129281 GLNWD GT 138 129288 ROSLYN	138 1			-0.36255	0.35707	46.4	293.5	
			12478	693.9	3362.1		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1580.2	-1725.0	-0.20870		-0.16830	-1298.7	-1415.5
								C:SIN:4301	683							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1			-0.18008	0.22436	1563.2	1718.9	
			12479	693.9	3362.1		L:126294	PLTVLLEY 345 137455 ATHENS 345 1		-1580.2	-1725.0	-0.20870		-0.16830	-1298.7	-1415.5
								C:125002 ROSETON 345 126281 FISHKI	10							
								Open 125002 ROSETON 345 126281 FISHKILL	345 1			-0.18008	0.22436	1563.2	1718.9	
			12480	694.9	3363		L:129270	E.G.C. 138 129288 ROSLYN 138 1		-90.9	-339.0	-0.35707		-0.35707	2.1	-246.0

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:128842 NEPTCONV 345 128847 NWBRG 398								
								Open 128842 NEPTCONV 345 128847 NWBRG	345 1				0.13960	0.00000	-666.2	-666.2
			12481	698.6	3366.3		L:126455 JAMAICA 138 129249 L SUCSPH 138 1			226.7	428.0	0.28819		0.00000	90.3	90.3
								C:126266 DUNWODIE 345 128835 SHORE 363								
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.28819	1.00000	473.3	1171.9
			12482	699.9	3367.6		L:126455 JAMAICA 138 129249 L SUCSPH 138 1			226.3	428.0	0.28819		0.00000	90.3	90.3
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1					0.28819	0.50089	236.4	587.0
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2					0.28819	0.49911	235.6	584.9
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.00461	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1					-0.00461	0.00000	0.0	0.0
			12483	701.8	3369.3		L:129281 GLNWD GT 138 129288 ROSLYN 138 1			46.4	297.0	0.35707				
								Base Case								
			12484	710.3	3377		L:129281 GLNWD GT 138 129282 GLNWD NO 138 1			-29.5	-379.0	-0.49203		-0.35707	13.4	-240.3
								C:129283 GLNWD SO 138 129293 SHORE 428								
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					0.34178	-0.39490	-125.4	-405.9
			12485	712.4	3378.9		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.7	339.0	0.34851		0.34851	-57.6	190.7
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK 345 1					0.23165	0.00000	640.3	640.3
			12488	713.2	3379.6		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.4	339.0	0.34851		0.34851	-57.6	190.9
								C:128830 HMP HRBR 345 147857 DVNPT 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1					-0.23165	0.00000	-639.2	-639.2
			12489	714.3	3380.6		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.1	339.0	0.34851		0.34851	-57.6	191.3
								C:128824 EGC DUM 345 128825 EGC PA 394								
								Open 128824 EGC DUM 345 128825 EGC PAR 345 1					0.23165	0.00000	637.6	637.6
			12490	714.3	3380.6		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.1	339.0	0.34851		0.34851	-57.6	191.3
								C:128824 EGC DUM 345 128830 HMP HR 395								
								Open 128824 EGC DUM 345 128830 HMP HRBR 345 1					-0.23165	0.00000	-637.6	-637.6
			12491	714.3	3380.6		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.1	339.0	0.34851		0.34851	-57.6	191.3
								C:BUS:EGC_3451 623								
								Open 126299 REACBUS 345 147857 DVNPT NK NA								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					0.23130	0.00000	641.9	641.9
								Open 128830 HMP HRBR 345 147857 DVNPT NK NA								
								Open 128824 EGC DUM 345 128830 HMP HRBR NA								
								Open 128824 EGC DUM 345 128825 EGC PAR NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					-0.00069	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					-0.22228	0.00000	4.6	4.6
			12492	714.3	3380.6		L:129265 CARLE PL 138 129270 E.G.C. 138 1			90.1	339.0	0.34851		0.34851	-57.6	191.3
								C:SPRN-BRK-3451 778								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					0.23130	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK NA								
								Open 128830 HMP HRBR 345 147857 DVNPT NK NA								
								Open 128824 EGC DUM 345 128830 HMP HRBR NA								
								Open 128824 EGC DUM 345 128825 EGC PAR NA								
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					-0.00069	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					-0.22228	0.00000	4.6	4.6
			12493	721.7	3387.3		L:128835 SHORE RD 345 129293 SHORE RD 138 1			408.5	770.0	0.50089		0.50089	236.4	597.9
								C:126299 REACBUS 345 147857 DVNPT 133								
								Open 126299 REACBUS 345 147857 DVNPT NK 345 1					0.26877	0.00000	640.3	640.3
			12494	722.3	3387.9		L:128835 SHORE RD 345 129293 SHORE RD 138 1			408.2	770.0	0.50089		0.50089	236.4	598.2
								C:128830 HMP HRBR 345 147857 DVNPT 373								
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1					-0.26877	0.00000	-639.2	-639.2
			12495	723.1	3388.6		L:128835 SHORE RD 345 129293 SHORE RD 138 1			407.8	770.0	0.50089		0.50089	236.4	598.6
								C:BUS:EGC_3451 623								
								Open 126299 REACBUS 345 147857 DVNPT NK NA								
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					0.26865	0.00000	641.9	641.9



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 128830 HMP HRBR 345 147857 DVNPT NK		NA						
								Open 128824 EGC DUM 345 128830 HMP HRBR		NA						
								Open 128824 EGC DUM 345 128825 EGC PAR		NA						
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00024	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.25111	0.00000	4.6	4.6
			12496	723.1	3388.6		L:128835	SHORE RD 345 129293 SHORE RD 138 1		407.8	770.0	0.50089		0.50089	236.4	598.6
								C:SPRN-BRK-3451		778						
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.26865	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK		NA						
								Open 128830 HMP HRBR 345 147857 DVNPT NK		NA						
								Open 128824 EGC DUM 345 128830 HMP HRBR		NA						
								Open 128824 EGC DUM 345 128825 EGC PAR		NA						
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00024	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.25111	0.00000	4.6	4.6
			12497	723.2	3388.7		L:128835	SHORE RD 345 129293 SHORE RD 138 1		407.8	770.0	0.50089		0.50089	236.4	598.6
								C:128824 EGC DUM 345 128825 EGC PA	394							
								Open 128824 EGC DUM 345 128825 EGC PAR	345 1				0.26877	0.00000	637.6	637.6
			12498	723.2	3388.7		L:128835	SHORE RD 345 129293 SHORE RD 138 1		407.8	770.0	0.50089		0.50089	236.4	598.6
								C:128824 EGC DUM 345 128830 HMP HR	395							
								Open 128824 EGC DUM 345 128830 HMP HRBR	345 1				-0.26877	0.00000	-637.6	-637.6
			12499	724.1	3389.5		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1558.3	-1725.0	-0.23022		-0.17567	-1341.7	-1468.9
								C:137451 LEEDS 3 345 137455 ATHENS	6							
								Open 137451 LEEDS 3 345 137455 ATHENS	345 1				-0.44124	0.12363	490.9	580.4
			12500	727.2	3392.3		L:128835	SHORE RD 345 129293 SHORE RD 138 2		407.1	770.0	0.49911		0.49911	235.6	598.5
								C:126299 REACBUS 345 147857 DVNPT	133							
								Open 126299 REACBUS 345 147857 DVNPT NK	345 1				0.26782	0.00000	640.3	640.3
			12501	727.8	3392.8		L:128835	SHORE RD 345 129293 SHORE RD 138 2		406.8	770.0	0.49911		0.49911	235.6	598.8
								C:128830 HMP HRBR 345 147857 DVNPT	373							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	345 1				-0.26782	0.00000	-639.2	-639.2
			12502	728.6	3393.6		L:128835	SHORE RD 345 129293 SHORE RD 138 2		406.3	770.0	0.49911		0.49911	235.6	599.2
								C:SPRN-BRK-3451		778						
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.26770	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK		NA						
								Open 128830 HMP HRBR 345 147857 DVNPT NK		NA						
								Open 128824 EGC DUM 345 128830 HMP HRBR		NA						
								Open 128824 EGC DUM 345 128825 EGC PAR		NA						
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00024	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.25022	0.00000	4.6	4.6
			12503	728.6	3393.6		L:128835	SHORE RD 345 129293 SHORE RD 138 2		406.3	770.0	0.49911		0.49911	235.6	599.2
								C:BUS:EGC_3451		623						
								Open 126299 REACBUS 345 147857 DVNPT NK		NA						
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.26770	0.00000	641.9	641.9
								Open 128830 HMP HRBR 345 147857 DVNPT NK		NA						
								Open 128824 EGC DUM 345 128830 HMP HRBR		NA						
								Open 128824 EGC DUM 345 128825 EGC PAR		NA						
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				-0.00024	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.25022	0.00000	4.6	4.6
			12504	728.7	3393.6		L:128835	SHORE RD 345 129293 SHORE RD 138 2		406.3	770.0	0.49911		0.49911	235.6	599.3
								C:128824 EGC DUM 345 128825 EGC PA	394							
								Open 128824 EGC DUM 345 128825 EGC PAR	345 1				0.26782	0.00000	637.6	637.6
			12505	728.7	3393.6		L:128835	SHORE RD 345 129293 SHORE RD 138 2		406.3	770.0	0.49911		0.49911	235.6	599.3
								C:128824 EGC DUM 345 128830 HMP HR	395							
								Open 128824 EGC DUM 345 128830 HMP HRBR	345 1				-0.26782	0.00000	-637.6	-637.6
			12506	728.7	3393.6*		L:129281	GLNWD GT 138 129288 ROSLYN 138 1		25.1	379.0	0.48562		0.35707	46.4	306.6
								C:129265 CARLE PL 138 129270 E.G.C.	416							
								Open 129265 CARLE PL 138 129270 E.G.C.	138 1				0.36886	0.34851	-57.6	196.3

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			12507	728.9	3393.8		L:129265	CARLE PL 138 129283 GLNWD SO 138 1			-30.6	-379.0	-0.47796		-0.34851	-31.4	-285.4
								C:129270 E.G.C. 138 129288 ROSLYN 419									
								Open 129270 E.G.C. 138 129288 ROSLYN 138 1					0.36255	-0.35707	2.1	-258.1	
			12513	735.5	3399.8		L:126266	DUNWODIE 345 128835 SHORE RD 345 1		680.5	1416.0	1.00000		1.00000	473.3	1208.8	
								C:128842 NEPTCONV 345 128847 NWBRG 398									
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.31103	0.00000	-666.2	-666.2	
			12514	737	3401.2	*	L:129265	CARLE PL 138 129283 GLNWD SO 138 1		-122.1	-379.0	-0.34851		-0.34851	-31.4	-288.3	
								C:128842 NEPTCONV 345 128847 NWBRG 398									
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					0.13621	0.00000	-666.2	-666.2	
			12520	742.6	3406.2		L:129270	E.G.C. 138 129288 ROSLYN 138 1		2.1	-263.0	-0.35707					
								Base Case									
			12521	746.3	3409.6	*	L:129270	E.G.C. 138 129288 ROSLYN 138 1		23.4	-339.0	-0.48562		-0.35707	2.1	-264.3	
								C:129265 CARLE PL 138 129270 E.G.C. 416									
								Open 129265 CARLE PL 138 129270 E.G.C. 138 1					-0.36886	0.34851	-57.6	202.5	
			12531	759.8	3421.8		L:129270	E.G.C. 138 129310 NEWBRGE 138 1		89.8	235.0	0.19114					
								Base Case									
			12536	761.7	3423.6		L:129265	CARLE PL 138 129270 E.G.C. 138 1		-34.0	339.0	0.48970		0.34851	-57.6	207.8	
								C:129282 GLNWD NO 138 129293 SHORE 427									
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					-0.34002	-0.41524	-69.5	-385.8	
			12537	762.1	3423.9		L:129265	CARLE PL 138 129283 GLNWD SO 138 1		-31.4	-297.0	-0.34851					
								Base Case									
			12538	766	3427.5		L:129339	KINGS HWY 138 129355 PILGRIM 138 1		-485.6	-636.0	-0.19632		0.00514	-195.4	-191.4	
								C:129361 RULND RD 138 129421 HOLBRO 461									
								Open 129361 RULND RD 138 129421 HOLBROOK 138 1					-0.46422	0.43398	625.2	957.6	
			12543	768.2	3429.5		L:129339	KINGS HWY 138 129427 HOLTS GT 138 1		485.2	636.0	0.19632		-0.00514	194.9	191.0	
								C:129361 RULND RD 138 129421 HOLBRO 461									
								Open 129361 RULND RD 138 129421 HOLBROOK 138 1					0.46422	0.43398	625.2	958.6	
			12546	768.7	3429.9		L:126266	DUNWODIE 345 128835 SHORE RD 345 1		647.3	1416.0	1.00000		1.00000	473.3	1242.0	
								C:129343 NRTHPT P 138 129344 NRTHPT 451									
								Open 129343 NRTHPT P 138 129344 NRTHPT1 138 1					0.38884	0.00000	447.4	447.4	
			12549	775.8	3436.4		L:129248	L SUCS 138 129249 L SUCSPH 138 1		-226.4	-450.0	-0.28819		0.00000	-90.0	-90.0	
								C:126266 DUNWODIE 345 128835 SHORE 363									
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.28819	1.00000	473.3	1249.1	
			12550	777.1	3437.6		L:129248	L SUCS 138 129249 L SUCSPH 138 1		-226.0	-450.0	-0.28819		0.00000	-90.0	-90.0	
								C:BUS:SHORE_RD_3451 622									
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1					-0.28819	0.50089	236.4	625.7	
								Open 128835 SHORE RD 345 129293 SHORE RD 138 2					-0.28819	0.49911	235.6	623.4	
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					0.00461	0.00000	1.3	1.3	
								Open 150 DUNWD SW 0.0 126266 DUNWODIE 345 1					0.00461	0.00000	0.0	0.0	
			12557	784.1	3443.9		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1		1.8	-379.0	-0.48562		-0.35707	13.4	-266.6	
								C:129265 CARLE PL 138 129283 GLNWD 417									
								Open 129265 CARLE PL 138 129283 GLNWD SO 138 1					0.36886	-0.34851	-31.4	-304.7	
			12560	790.4	3449.6		L:129271	E.G.C.-2 138 129310 NEWBRGE 138 2		90.0	235.0	0.18342					
								Base Case									
			12563	794.6	3453.4		L:129265	CARLE PL 138 129270 E.G.C. 138 1		-40.8	339.0	0.47796		0.34851	-57.6	219.3	
								C:129281 GLNWD GT 138 129288 ROSLYN 426									
								Open 129281 GLNWD GT 138 129288 ROSLYN 138 1					0.36255	0.35707	46.4	330.1	
			12585	823.5	3479.6		L:126266	DUNWODIE 345 128835 SHORE RD 345 1		592.5	1416.0	1.00000		1.00000	473.3	1296.8	
								C:128822 E.G.C.-1 345 128825 EGC PA 390									
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					-0.37428	0.00000	-318.6	-318.6	
			12586	823.5	3479.6	*	L:126266	DUNWODIE 345 128835 SHORE RD 345 1		592.5	1416.0	1.00000		1.00000	473.3	1296.8	
								C:128822 E.G.C.-1 345 129270 E.G.C. 391									
								Open 128822 E.G.C.-1 345 129270 E.G.C. 138 1					0.37428	0.00000	318.6	318.6	
			12589	831.4	3486.8		L:129265	CARLE PL 138 129270 E.G.C. 138 1		-58.4	339.0	0.47796		0.34851	-57.6	232.1	
								C:129270 E.G.C. 138 129288 ROSLYN 419									
								Open 129270 E.G.C. 138 129288 ROSLYN 138 1					-0.36255	-0.35707	2.1	-294.7	

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
			12600	838.4	3493.1		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1			-79.6	-379.0	-0.35707		-0.35707	13.4	-286.0
								C:128842 NEPTCONV 345 128847 NWBRG 398									
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					0.13960	0.00000	-666.2	-666.2	
			12605	839.9	3494.5	*	L:129265	CARLE PL 138 129270 E.G.C. 138 1			-62.5	339.0	0.47796		0.34851	-57.6	235.1
								C:129281 GLNWD GT 138 129282 GLNWD 425									
								Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1					-0.36255	-0.35707	13.4	-286.6	
			12630	851.7	3505.2	*	L:129281	GLNWD GT 138 129282 GLNWD NO 138 1			34.6	-379.0	-0.48562		-0.35707	13.4	-290.8
								C:129265 CARLE PL 138 129270 E.G.C. 416									
								Open 129265 CARLE PL 138 129270 E.G.C. 138 1					-0.36886	0.34851	-57.6	239.2	
			12631	854.2	3507.5		L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1			91.6	165.0	0.08588		0.05817	82.8	132.5
								C:129283 GLNWD SO 138 129293 SHORE 428									
								Open 129283 GLNWD SO 138 129293 SHORE RD 138 1					-0.07016	-0.39490	-125.4	-462.7	
			12634	858.1	3511		L:128835	SHORE RD 345 129293 SHORE RD 138 1			340.2	770.0	0.50089		0.50089	236.4	666.2
								C:128842 NEPTCONV 345 128847 NWBRG 398									
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.15579	0.00000	-666.2	-666.2	
			12635	859.2	3512		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-153.3	-636.0	-0.56178		-0.39490	-125.4	-464.7
								C:129282 GLNWD NO 138 129293 SHORE 427									
								Open 129282 GLNWD NO 138 129293 SHORE RD 138 1					0.40190	-0.41524	-69.5	-426.3	
			12641	863.5	3516		L:128835	SHORE RD 345 129293 SHORE RD 138 2			339.0	770.0	0.49911		0.49911	235.6	666.6
								C:128842 NEPTCONV 345 128847 NWBRG 398									
								Open 128842 NEPTCONV 345 128847 NWBRG 345 1					-0.15524	0.00000	-666.2	-666.2	
			12653	869.2	3521.1		L:129281	GLNWD GT 138 129282 GLNWD NO 138 1			13.4	-297.0	-0.35707				
								Base Case									
			12662	869.7	3521.6		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2			-1545.6	-1725.0	-0.20631		-0.17567	-1341.7	-1494.5
								C:125000 HURLEY 3 345 125002 ROSETO 1									
								Open 125000 HURLEY 3 345 125002 ROSETON 345 1					-0.29337	0.10444	695.0	785.8	
			15511	884.5	3535		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.7	-636.0	-0.39490		-0.39490	-125.4	-474.7
								C:126299 REACBUS 345 147857 DVNPT 133									
								Open 126299 REACBUS 345 147857 DVNPT NK 345 1					-0.25198	0.00000	640.3	640.3	
			15702	885.2	3535.6		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.4	-636.0	-0.39490		-0.39490	-125.4	-474.9
								C:128830 HMP HRBR 345 147857 DVNPT 373									
								Open 128830 HMP HRBR 345 147857 DVNPT NK 345 1					0.25198	0.00000	-639.2	-639.2	
			15762	886.2	3536.5		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.0	-636.0	-0.39490		-0.39490	-125.4	-475.4
								C:128824 EGC DUM 345 128825 EGC PA 394									
								Open 128824 EGC DUM 345 128825 EGC PAR 345 1					-0.25198	0.00000	637.6	637.6	
			15763	886.2	3536.5		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.0	-636.0	-0.39490		-0.39490	-125.4	-475.4
								C:128824 EGC DUM 345 128830 HMP HR 395									
								Open 128824 EGC DUM 345 128830 HMP HRBR 345 1					0.25198	0.00000	-637.6	-637.6	
			15764	886.3	3536.6		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.0	-636.0	-0.39490		-0.39490	-125.4	-475.4
								C:BUS:EGC_3451 623									
								Open 126299 REACBUS 345 147857 DVNPT NK NA									
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					-0.25167	0.00000	641.9	641.9	
								Open 128830 HMP HRBR 345 147857 DVNPT NK NA									
								Open 128824 EGC DUM 345 128830 HMP HRBR NA									
								Open 128824 EGC DUM 345 128825 EGC PAR NA									
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					0.00061	0.00000	-318.6	-318.6	
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.24153	0.00000	4.6	4.6	
			15765	886.3	3536.6		L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-286.0	-636.0	-0.39490		-0.39490	-125.4	-475.4
								C:SPRN-BRK-3451 778									
								Open 126298 SPRBROOK 345 126299 REACBUS 345 BY					-0.25167	0.00000	641.9	641.9	
								Open 126299 REACBUS 345 147857 DVNPT NK NA									
								Open 128830 HMP HRBR 345 147857 DVNPT NK NA									
								Open 128824 EGC DUM 345 128830 HMP HRBR NA									
								Open 128824 EGC DUM 345 128825 EGC PAR NA									
								Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1					0.00061	0.00000	-318.6	-318.6	
								Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.24153	0.00000	4.6	4.6	



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			21184	960.3	3603.7		L:129282	Open 128824 EGC DUM 345 128830 HMP HRBR 345 1 GLNWD NO 138 129293 SHORE RD 138 1			-237.3 -636.0	-0.41524	0.26314 0.00000	-0.41524	-637.6 -69.5	-637.6 -468.2
								C:128824 EGC DUM 345 128825 EGC PA 394								
			21185	960.3	3603.7		L:129282	Open 128824 EGC DUM 345 128825 EGC PAR 345 1 GLNWD NO 138 129293 SHORE RD 138 1			-237.3 -636.0	-0.41524	-0.26314 0.00000	-0.41524	637.6 -69.5	637.6 -468.2
								C:BUS:EGC_3451 623								
								Open 126299 REACBUS 345 147857 DVNPT NK NA Open 126298 SPRBROOK 345 126299 REACBUS 345 BY Open 128830 HMP HRBR 345 147857 DVNPT NK NA Open 128824 EGC DUM 345 128830 HMP HRBR NA Open 128824 EGC DUM 345 128825 EGC PAR NA Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1 Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.00061 0.00000	0.00000	-318.6 4.6	-318.6 4.6
			21186	960.3	3603.7		L:129282	GLNWD NO 138 129293 SHORE RD 138 1			-237.3 -636.0	-0.41524		-0.41524	-69.5	-468.2
								C:SPRN-BRK-3451 778								
								Open 126299 REACBUS 345 147857 DVNPT NK NA Open 128830 HMP HRBR 345 126299 REACBUS 345 BY Open 128824 EGC DUM 345 128830 HMP HRBR NA Open 128824 EGC DUM 345 128825 EGC PAR NA Open 128822 E.G.C.-1 345 128825 EGC PAR 345 1 Open 128823 E.G.C.-2 345 128825 EGC PAR 345 1					0.00061 0.00000	0.00000	-318.6 4.6	-318.6 4.6
			21204	961.4	3604.7	*	L:129283	GLNWD SO 138 129293 SHORE RD 138 1			-120.1 -636.0	-0.53663		-0.39490	-125.4	-505.0
								C:129281 GLNWD GT 138 129282 GLNWD 425 Open 129281 GLNWD GT 138 129282 GLNWD NO 138 1					0.39693	-0.35707	13.4	-329.9
			21249	965	3608		L:129337	HAUPAGUE 138 129393 C.ISLIP 138 1			313.9 442.0	0.13276		0.00000	122.6	122.6
								C:129361 RULND RD 138 129421 HOLBRO 461 Open 129361 RULND RD 138 129421 HOLBROOK 138 1					0.30591	0.43398	625.2	1044.0
			21343	990.7	3631.3		L:129282	GLNWD NO 138 129293 SHORE RD 138 1			-82.4 -636.0	-0.55875		-0.41524	-69.5	-480.9
								C:129265 CARLE PL 138 129283 GLNWD 417 Open 129265 CARLE PL 138 129283 GLNWD SO 138 1					0.41180	-0.34851	-31.4	-376.7
			23040	1014.5	3652.9		L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1			85.5 165.0	0.07839		0.05817	82.8	141.9
								C:129281 GLNWD GT 138 129288 ROSLYN 426 Open 129281 GLNWD GT 138 129288 ROSLYN 138 1					0.05661	0.35707	46.4	408.7
			23057	1019.8	3657.6		L: Interface	14 Leeds-PV			3038.3 3450.0	0.40377		0.34397	2640.4	2991.1
								C:125000 HURLEY 3 345 125002 ROSETO 1 Open 125000 HURLEY 3 345 125002 ROSETON 345 1					0.57256	0.10444	695.0	801.5
			23087	1029.5	3666.5		L:129282	GLNWD NO 138 129293 SHORE RD 138 1			-69.5 -497.0	-0.41524				
								Base Case								
			23168	1049.6	3684.7		L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1			82.7 165.0	0.07839		0.05817	82.8	143.9
								C:129270 E.G.C. 138 129288 ROSLYN 419 Open 129270 E.G.C. 138 129288 ROSLYN 138 1					-0.05661	-0.35707	2.1	-372.6
			23181	1052.5	3687.3		L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1			96.6 165.0	0.06497		0.05817	82.8	144.1
								C:129283 GLNWD SO 138 129588 GLNWD 525 Open 129283 GLNWD SO 138 129588 GLNWD SO 69.0 1					0.14659	0.04639	94.0	142.8
			23188	1055	3689.6		L:128822	E.G.C.-1 345 128825 EGC PAR 345 1			-429.0 -675.0	-0.23322		0.00000	-318.6	-318.6
								C:126266 DUNWODIE 345 128835 SHORE 363 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.23322	1.00000	473.3	1528.3
			23189	1055	3689.6		L:128822	E.G.C.-1 345 129270 E.G.C. 138 1			428.9 675.0	0.23322		0.00000	318.6	318.6
								C:126266 DUNWODIE 345 128835 SHORE 363 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					0.23322	1.00000	473.3	1528.3
			23198	1056.2	3690.7		L:128822	E.G.C.-1 345 128825 EGC PAR 345 1			-428.7 -675.0	-0.23322		0.00000	-318.6	-318.6
								C:BUS:SHORE_RD_3451 622								
								Open 128835 SHORE RD 345 129293 SHORE RD 138 1 Open 128835 SHORE RD 345 129293 SHORE RD 138 2					-0.23322	0.50089	236.4	765.5
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.23322	0.49911	235.6	762.7
								Open 126266 DUNWODIE 345 128835 SHORE RD 345 1					-0.01550	0.00000	1.3	1.3



From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				0.00010	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.02437	0.00000	4.6	4.6
			28366	1130.6	3758.2	*	L:129282	GLNWD NO 138 129587 GLNWD NO 69.0 1		99.2	165.0	0.05817		0.05817	82.8	148.6
								C:SPRN-BRK-3451		778						
								Open 126298 SPRBROOK 345 126299 REACBUS	345 BY				0.02574	0.00000	641.9	641.9
								Open 126299 REACBUS 345 147857 DVNPT NK	NA							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	NA							
								Open 128824 EGC DUM 345 128830 HMP HRBR	NA							
								Open 128824 EGC DUM 345 128825 EGC PAR	NA							
								Open 128822 E.G.C.-1 345 128825 EGC PAR	345 1				0.00010	0.00000	-318.6	-318.6
								Open 128823 E.G.C.-2 345 128825 EGC PAR	345 1				-0.02437	0.00000	4.6	4.6
			30041	1149.2	3775.1		L:126294	PLTVLLEY 345 137451 LEEDS 3 345 2		-1498.0	-1725.0	-0.19751		-0.17567	-1341.7	-1543.6
								C:130750 COOPC345 345 130753 FRASR3	192							
								Open 130750 COOPC345 345 130753 FRASR345	345 1				0.14996	-0.14565	-1042.5	-1209.9
			30066	1160.2	3785		L:126299	REACBUS 345 147857 DVNPT NK 345 1		860.1	1399.0	0.46446		0.00000	640.3	640.3
								C:126266 DUNWODIE 345 128835 SHORE	363							
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.46446	1.00000	473.3	1633.5
			30068	1161.4	3786.1		L:126299	REACBUS 345 147857 DVNPT NK 345 1		859.6	1399.0	0.46446		0.00000	640.3	640.3
								C:BUS:SHORE_RD_3451		622						
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				0.46446	0.50089	236.4	818.2
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				0.46446	0.49911	235.6	815.3
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.03091	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				0.03091	0.00000	0.0	0.0
			30078	1166.1	3790.4		L:128824	EGC DUM 345 128830 HMP HRBR 345 1		-857.4	-1399.0	-0.46446		0.00000	-637.6	-637.6
								C:126266 DUNWODIE 345 128835 SHORE	363							
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				-0.46446	1.00000	473.3	1639.4
			30079	1166.1	3790.4		L:128824	EGC DUM 345 128825 EGC PAR 345 1		857.4	1399.0	0.46446		0.00000	637.6	637.6
								C:126266 DUNWODIE 345 128835 SHORE	363							
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.46446	1.00000	473.3	1639.4
			30081	1167.3	3791.5		L:128824	EGC DUM 345 128825 EGC PAR 345 1		856.8	1399.0	0.46446		0.00000	637.6	637.6
								C:BUS:SHORE_RD_3451		622						
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				0.46446	0.50089	236.4	821.1
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				0.46446	0.49911	235.6	818.2
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.03091	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				0.03091	0.00000	0.0	0.0
			30082	1167.3	3791.5		L:128824	EGC DUM 345 128830 HMP HRBR 345 1		-856.8	-1399.0	-0.46446		0.00000	-637.6	-637.6
								C:BUS:SHORE_RD_3451		622						
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				-0.46446	0.50089	236.4	821.1
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				-0.46446	0.49911	235.6	818.2
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				-0.03091	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				-0.03091	0.00000	0.0	0.0
			30098	1173.8	3797.4		L:126452	HUDAVE E 138 126455 JAMAICA 138 2		275.1	406.0	0.11149		0.00000	222.4	222.4
								C:126266 DUNWODIE 345 128835 SHORE	363							
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.11149	1.00000	473.3	1647.1
			30099	1173.8	3797.4		L:126452	HUDAVE E 138 126455 JAMAICA 138 1		275.1	406.0	0.11149		0.00000	222.4	222.4
								C:126266 DUNWODIE 345 128835 SHORE	363							
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.11149	1.00000	473.3	1647.1
			30100	1175.3	3798.7		L:126452	HUDAVE E 138 126455 JAMAICA 138 1		275.0	406.0	0.11149		0.00000	222.4	222.4
								C:BUS:SHORE_RD_3451		622						
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				0.11149	0.50089	236.4	825.1
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				0.11149	0.49911	235.6	822.2
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				-0.01216	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				-0.01216	0.00000	0.0	0.0
			30101	1175.3	3798.7		L:126452	HUDAVE E 138 126455 JAMAICA 138 2		275.0	406.0	0.11149		0.00000	222.4	222.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
								C:BUS:SHORE_RD_3451	622							
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				0.11149	0.50089	236.4	825.1
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				0.11149	0.49911	235.6	822.2
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				-0.01216	0.00000	1.3	1.3
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				-0.01216	0.00000	0.0	0.0
			30103	1176.5	3799.8		L:126294	PLTVLLEY 345 137455 ATHENS	345 1		-1492.7	-1725.0	-0.19746	-0.16830	-1298.7	-1496.7
								C:125000 HURLEY 3 345 125002 ROSETO	1							
								Open 125000 HURLEY 3 345 125002 ROSETON	345 1				-0.27919	0.10444	695.0	817.8
			30106	1183.4	3806.1		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		91.3	165.0	0.06225	0.04639	94.0	148.9
								C:129265 CARLE PL 138 129270 E.G.C.	416							
								Open 129265 CARLE PL 138 129270 E.G.C.	138 1				0.04550	0.34851	-57.6	354.8
			30108	1183.8	3806.4		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		95.6	165.0	0.05867	0.04639	94.0	148.9
								C:129281 GLNWD GT 138 129288 ROSLYN	426							
								Open 129281 GLNWD GT 138 129288 ROSLYN	138 1				0.03438	0.35707	46.4	469.1
			30117	1201.3	3822.3		L:129421	HOLBROOK 138 129806 HOLBRK1	69.0 1		278.1	318.0	0.03324	0.02819	239.6	273.5
								C:129421 HOLBROOK 138 129807 HOLBRK	542							
								Open 129421 HOLBROOK 138 129807 HOLBRK2	69.0 2				0.39913	0.01265	96.3	111.5
			30128	1212.2	3832.2		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		93.9	165.0	0.05867	0.04639	94.0	150.2
								C:129270 E.G.C. 138 129288 ROSLYN	419							
								Open 129270 E.G.C. 138 129288 ROSLYN	138 1				-0.03438	-0.35707	2.1	-430.7
			30135	1218.8	3838.1		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		93.5	165.0	0.05867	0.04639	94.0	150.5
								C:129281 GLNWD GT 138 129282 GLNWD	425							
								Open 129281 GLNWD GT 138 129282 GLNWD NO	138 1				-0.03438	-0.35707	13.4	-421.8
			30153	1245	3862		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		102.0	165.0	0.05058	0.04639	94.0	151.7
								C:129248 L SUCS 138 129543 LKE SC	521							
								Open 129248 L SUCS 138 129543 LKE SCSS	69.0 1				0.06533	0.06407	123.6	203.4
			30157	1250.8	3867.2		L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		107.0	165.0	0.04639	0.04639	94.0	152.0
								C:126299 REACBUS 345 147857 DVNPT	133							
								Open 126299 REACBUS 345 147857 DVNPT NK	345 1				0.02033	0.00000	640.3	640.3
			30158	1251.3	3867.7	*	L:129283	GLNWD SO 138 129588 GLNWD SO	69.0 1		107.0	165.0	0.04639	0.04639	94.0	152.0
								C:128830 HMP HRBR 345 147857 DVNPT	373							
								Open 128830 HMP HRBR 345 147857 DVNPT NK	345 1				-0.02033	0.00000	-639.2	-639.2
			30173	1264.4	3879.6		L:137451	LEEDS 3 345 137452 N.SCOT77	345 1		-1444.0	-1724.0	-0.22141	-0.14181	-924.6	-1103.9
								C:137451 LEEDS 3 345 137453 N.SCOT	5							
								Open 137451 LEEDS 3 345 137453 N.SCOT99	345 2				0.56509	-0.14087	-919.3	-1097.4
			30176	1265.3	3880.3		L:129270	E.G.C. 138 129310 NEWBRGE	138 1		30.6	491.0	0.36390	0.19114	89.8	331.6
								C:129270 E.G.C. 138 129271 E.G.C.	418							
								Open 129270 E.G.C. 138 129271 E.G.C.-2	138 1				0.45861	0.37672	-129.1	347.5
			30178	1266.5	3881.5		L: Interface	41 I-to-K			1548.5	2815.0	1.00000	1.00000	1113.6	2380.1
								C:128842 NEPTCONV 345 128847 NWBRG	398							
								Open 128842 NEPTCONV 345 128847 NWBRG	345 1				-0.65273	0.00000	-666.2	-666.2
			30179	1266.5	3881.5		L: Interface	42 K-to-I			-1548.5	-2815.0	-1.00000	-1.00000	-1113.6	-2380.1
								C:128842 NEPTCONV 345 128847 NWBRG	398							
								Open 128842 NEPTCONV 345 128847 NWBRG	345 1				0.65273	0.00000	-666.2	-666.2
			30189	1275.6	3889.7		L: Interface	11 DUN-SOUTH OP			5034.4	6310.0	1.00000			
								Base Case								
			30196	1283.1	3896.5		L:137451	LEEDS 3 345 137453 N.SCOT99	345 2		-1440.6	-1724.0	-0.22083	-0.14087	-919.3	-1100.1
								C:137451 LEEDS 3 345 137452 N.SCOT	4							
								Open 137451 LEEDS 3 345 137452 N.SCOT77	345 1				0.56389	-0.14181	-924.6	-1106.5
			30954	1343.3	3951.1		L: Interface	41 I-to-K			1471.7	2815.0	1.00000	1.00000	1113.6	2456.9
								C:129343 NRTHPT P 138 129344 NRTHPT	451							
								Open 129343 NRTHPT P 138 129344 NRTHPT1	138 1				0.80034	0.00000	447.4	447.4
			30955	1343.3	3951.1		L: Interface	42 K-to-I			-1471.7	-2815.0	-1.00000	-1.00000	-1113.6	-2456.9
								C:129343 NRTHPT P 138 129344 NRTHPT	451							
								Open 129343 NRTHPT P 138 129344 NRTHPT1	138 1				-0.80034	0.00000	447.4	447.4
			30956	1393.2	3996.4		L: Interface	44 K-to-J			-351.4	-869.0	-0.37155	0.00000	-175.5	-175.5



From	To	Transfer Level	N	FCITC	Interface-1	Prag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final	
								C:126266 DUNWODIE 345 128835 SHORE	363								
			30957	1393.2	3996.4		L: Interface 43 J-to-K	Open 126266 DUNWODIE 345 128835 SHORE RD	345 1	351.4	869.0	0.37155	-0.37155	1.00000	473.3	1866.5	
								C:126266 DUNWODIE 345 128835 SHORE	363								
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.37155	1.00000	473.3	1866.5	
			30958	1394.6	3997.6		L: Interface 44 K-to-J	C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				-0.37155	0.50089	236.4	934.9	
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				-0.37155	0.49911	235.6	931.6	
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				0.00940	0.00000	1.3	1.3	
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				0.00940	0.00000	0.0	0.0	
			30959	1394.6	3997.6		L: Interface 43 J-to-K	C:BUS:SHORE_RD_3451	622								
								Open 128835 SHORE RD 345 129293 SHORE RD	138 1				0.37155	0.50089	236.4	934.9	
								Open 128835 SHORE RD 345 129293 SHORE RD	138 2				0.37155	0.49911	235.6	931.6	
								Open 126266 DUNWODIE 345 128835 SHORE RD	345 1				-0.00940	0.00000	1.3	1.3	
								Open 150 DUNWD SW 0.0 126266 DUNWODIE	345 1				-0.00940	0.00000	0.0	0.0	
			30960	1569.4	4156.2		L: Interface 42 K-to-I	C:129027 NRTPTG4 22.0 129342 NRTHPR	508								
								Open 129027 NRTPTG4 22.0 129342 NRTHPR	138 1								
								Open 129027 NRTPTG4 22.0 129342 NRTHPR	138 1				0.59547	0.06310	-320.7	-221.6	
			30961	1569.4	4156.2		L: Interface 41 I-to-K	C:129027 NRTPTG4 22.0 129342 NRTHPR	508								
								Open 129027 NRTPTG4 22.0 129342 NRTHPR	138 1								
								Open 129027 NRTPTG4 22.0 129342 NRTHPR	138 1				-0.59547	0.06310	-320.7	-221.6	
			30962	1569.4	4156.2		L: Interface 41 I-to-K	C:129026 NRTPTG3 22.0 129342 NRTHPR	507								
								Open 129026 NRTPTG3 22.0 129342 NRTHPR	138 1								
								Open 129026 NRTPTG3 22.0 129342 NRTHPR	138 1				-0.59547	0.06310	-320.6	-221.6	
			30963	1569.4	4156.2		L: Interface 42 K-to-I	C:129026 NRTPTG3 22.0 129342 NRTHPR	507								
								Open 129026 NRTPTG3 22.0 129342 NRTHPR	138 1								
								Open 129026 NRTPTG3 22.0 129342 NRTHPR	138 1				0.59547	0.06310	-320.6	-221.6	
			30964	1571.2	4157.8		L: Interface 41 I-to-K	C:SIN:2501	678								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					-0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30965	1571.2	4157.8		L: Interface 42 K-to-I	C:SIN:2501	678								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30966	1573.7	4160.1		L: Interface 42 K-to-I	C:GEN:MLS3&OMS1	575								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30967	1573.7	4160.1		L: Interface 42 K-to-I	C:GEN:MILLST 31	573								
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30968	1573.7	4160.1		L: Interface 41 I-to-K	C:GEN:MLS3&OMS1	575								
								Open 100508 SANDB115 115 100509 SB RCTOR	115 2					-0.00002	0.00000	-0.1	-0.1
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30969	1573.7	4160.1		L: Interface 41 I-to-K	C:GEN:MILLST 31	573								
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
								Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW dispatch								
			30970	1576.6	4162.7		L: Interface 41 I-to-K	C:129025 NRTPTG2 22.0 129341 NRTHPR	506								
								Open 129025 NRTPTG2 22.0 129341 NRTHPR	138 1								
								Open 129025 NRTPTG2 22.0 129341 NRTHPR	138 1				-0.56372	0.06310	-320.8	-221.3	
			30971	1576.6	4162.7		L: Interface 42 K-to-I	C:129025 NRTPTG2 22.0 129341 NRTHPR	506								
								Open 129025 NRTPTG2 22.0 129341 NRTHPR	506								

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			30972	1576.7	4162.8		L: Interface	Open 129025 NRTPTG2 22.0 129341 NRTHPT1	138 1				0.56372	0.06310	-320.8	-221.3
								C:129024 NRTPTG1 22.0 129346 NRTHPT	505		-1294.3	-2815.0	-0.96443	-1.00000	-1113.6	-2690.4
			30973	1576.7	4162.8		L: Interface	Open 129024 NRTPTG1 22.0 129346 NRTHPT3	138 1				0.56375	0.06310	-320.6	-221.1
								C:129024 NRTPTG1 22.0 129346 NRTHPT	505		1294.3	2815.0	0.96443	1.00000	1113.6	2690.4
			30974	1578.1	4164		L: Interface	Open 129024 NRTPTG1 22.0 129346 NRTHPT3	138 1				-0.56375	0.06310	-320.6	-221.1
								C:GEN:9 MI PT21	562		-55.4	0.0	0.03513	0.03513	-146.4	-90.9
			NA	1578.1	4164	R	L: Interface	Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW	dispatch					
								C:GEN:9 MI PT21	562		55.4	0.0	-0.03513	-0.03513	146.4	90.9
			30975	1578.1	4164	*	L: Interface	Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW	dispatch					
								C:GEN:9 MI PT21	562		55.4	0.0	-0.03513	-0.03513	146.4	90.9
			NA	1578.1	4164	R	L: Interface	Remove unit 2 from bus 136700 9M PT 2G	25.0	1198.7 MW	dispatch					
								C:GEN:9 MI PT21	562		-55.4	0.0	0.03513	0.03513	-146.4	-90.9
			30976	1592.4	4177	*	L: Interface	Open 128880 SHMVDCL 192 129459 SHOREH	401							
								C:128880 SHMVDCL 192 129459 SHOREHAM	138 1		-1313.5	-2815.0	-0.94293	-1.00000	-1113.6	-2706.0
			30977	1592.4	4177	*	L: Interface	Open 128880 SHMVDCL 192 129459 SHOREHAM	138 1				0.61356	0.09302	-325.8	-177.7
								C:128880 SHMVDCL 192 129459 SHOREH	401		1313.5	2815.0	0.94293	1.00000	1113.6	2706.0
			30984	1635.2	4215.8		L: Interface	Open 128880 SHMVDCL 192 129459 SHOREHAM	138 1				-0.61356	0.09302	-325.8	-177.7
								C:SIN:1201	668		2866.5	3450.0	0.35683	0.34397	2640.4	3202.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1				0.08535	0.07533	800.1	923.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2				0.08535	0.07533	800.1	923.2
								Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1				-0.08356	0.00000	40.2	40.2
								Open 126263 BUCHANAN S 345 147832 IP3 345	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	NA							
			30985	1635.2	4215.8		L: Interface	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW	dispatch					
								C:SIN:1301	669		2866.5	3450.0	0.35683	0.34397	2640.4	3202.8
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 1				0.08535	0.07533	800.1	923.2
								Open 126263 BUCHANAN S 345 126291 MILLWOOD	345 2				0.08535	0.07533	800.1	923.2
								Open 126263 BUCHANAN S 345 126290 LADENTWN	345 1				-0.08356	0.00000	40.2	40.2
								Open 126263 BUCHANAN S 345 147832 IP3 345	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	NA							
								Open 147798 IP#3 GEN 22.0 147832 IP3 345	NA							
			32932	1827.3	4390		L: Interface	Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW	dispatch					
								C:SIN:1301	669		2786.4	3450.0	0.36318	0.34397	2640.4	3268.9
								C:SER:CMT34&MTR341	594							
								Open 130750 COOPC345 345 146754 MDTN TAP	345 1				0.18277	0.12697	908.9	1140.9
								Open 125001 ROCK TAV 345 146754 MDTN TAP	345 1				0.04442	-0.08992	-452.6	-616.9
			32937	1837.4	4399.2		L: Interface	Open 128842 NEPTCONV 345 128847 NWBRG	398				1.00000	1.00000	1289.1	3126.5
								C:128842 NEPTCONV 345 128847 NWBRG	345 1				-0.83676	0.00000	-666.2	-666.2
			32938	1938.1	4490.5		L: Interface	Open 128842 NEPTCONV 345 128847 NWBRG	345 1				0.36190	0.34397	2640.4	3307.0
								C:SIN:4401	684		2748.6	3450.0	0.36190	0.34397	2640.4	3307.0
								Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				0.09303	0.19269	1163.8	1537.3
			32939	1947.4	4499		L: Interface	Open 125001 ROCK TAV 345 126297 RAMAPO	345 1				1.00000	1.00000	1289.1	3236.6
								C:129343 NRTHPT P 138 129344 NRTHPT	451		1736.6	3684.0	1.00000	1.00000	1289.1	3236.6
								Open 129343 NRTHPT P 138 129344 NRTHPT1	138 1				1.00000	0.00000	447.4	447.4

From	To	Transfer Level	N	FCITC	Interface-1	Flag	Limiting Constraint	Contingency	Ncon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			32940	1956.9	4507.6		L: Interface 14 Leeds-PV			2776.9	3450.0	0.34397		0.34397	2640.4	3313.5
							C:GEN:IND PT 31		556							
							Remove unit 1 from bus 147798 IP#3 GEN	22.0	1072.8 MW	dispatch						
			32941	1957.6	4508.2	*	L: Interface 14 Leeds-PV			2742.7	3450.0	0.36130		0.34397	2640.4	3313.7
							C:102928 MANY393 345 137450 ALPS34		361							
							Open 102928 MANY393 345 137450 ALPS345		345 1				-0.34105	-0.05081	-300.2	-399.6
			32970	2205.1	4732.7		L: Interface 29 ConEd-LIPA			1478.9	3684.0	1.00000		1.00000	1289.1	3494.2
							C:SIN:2501		678							
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2				-0.00003	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
			32971	2210.1	4737.2		L: Interface 29 ConEd-LIPA			1473.9	3684.0	1.00000		1.00000	1289.1	3499.2
							C:GEN:MLS3&OMS1		575							
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2				-0.00003	0.00000	-0.1	-0.1
							Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
			32972	2210.1	4737.2		L: Interface 29 ConEd-LIPA			1473.9	3684.0	1.00000		1.00000	1289.1	3499.2
							C:GEN:MILLST 31		573							
							Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
			32990	2257.3	4780.1		L: Interface 29 ConEd-LIPA			1426.7	3684.0	1.00000		1.00000	1289.1	3546.4
							C:GEN:SEAB&OMS1		576							
							Open 100508 SANDB115 115 100509 SB RCTOR		115 2				-0.00003	0.00000	-0.1	-0.1
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
			32991	2257.3	4780.1		L: Interface 29 ConEd-LIPA			1426.7	3684.0	1.00000		1.00000	1289.1	3546.4
							C:GEN:SEABROOK1		574							
							Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
			32992	2258.3	4780.9		L: Interface 29 ConEd-LIPA			1535.0	3684.0	0.95161		1.00000	1289.1	3547.4
							C:129027 NRTPTG4 22.0 129342 NRTHPR		508							
							Open 129027 NRTPTG4 22.0 129342 NRTHPRT2		138 1				-0.76685	0.06310	-320.7	-178.2
			32993	2258.3	4781		L: Interface 29 ConEd-LIPA			1535.0	3684.0	0.95161		1.00000	1289.1	3547.4
							C:129026 NRTPTG3 22.0 129342 NRTHPR		507							
							Open 129026 NRTPTG3 22.0 129342 NRTHPRT2		138 1				-0.76685	0.06310	-320.6	-178.1
			32996	2265.6	4787.6	*	L: Interface 29 ConEd-LIPA			1522.4	3684.0	0.95411		1.00000	1289.1	3554.7
							C:129025 NRTPTG2 22.0 129341 NRTHPR		506							
							Open 129025 NRTPTG2 22.0 129341 NRTHPRT1		138 1				-0.72727	0.06310	-320.8	-177.8
			34919	2726.1	5205.2		L: Interface 64 LIPA Export			-3053.5	-5354.0	-0.84388		-0.90698	-2732.7	-5205.2
							C:129025 NRTPTG2 22.0 129341 NRTHPR		506							
							Open 129025 NRTPTG2 22.0 129341 NRTHPRT1		138 1				1.00000	0.06310	-320.8	-148.8
			34920	2726.1	5205.2		L: Interface 28 LIPA Import			3053.5	5354.0	0.84388		0.90698	2732.7	5205.2
							C:129025 NRTPTG2 22.0 129341 NRTHPR		506							
							Open 129025 NRTPTG2 22.0 129341 NRTHPRT1		138 1				-1.00000	0.06310	-320.8	-148.8
			34921	2726.2	5205.4		L: Interface 64 LIPA Export			-3053.4	-5354.0	-0.84388		-0.90698	-2732.7	-5205.4
							C:129027 NRTPTG4 22.0 129342 NRTHPR		508							
							Open 129027 NRTPTG4 22.0 129342 NRTHPRT2		138 1				1.00000	0.06310	-320.7	-148.6
			34922	2726.2	5205.4		L: Interface 28 LIPA Import			3053.4	5354.0	0.84388		0.90698	2732.7	5205.4
							C:129027 NRTPTG4 22.0 129342 NRTHPR		508							
							Open 129027 NRTPTG4 22.0 129342 NRTHPRT2		138 1				-1.00000	0.06310	-320.7	-148.6
			34923	2726.2	5205.4		L: Interface 28 LIPA Import			3053.4	5354.0	0.84388		0.90698	2732.7	5205.4
							C:129026 NRTPTG3 22.0 129342 NRTHPR		507							
							Open 129026 NRTPTG3 22.0 129342 NRTHPRT2		138 1				-1.00000	0.06310	-320.6	-148.6
			34924	2726.2	5205.4		L: Interface 64 LIPA Export			-3053.4	-5354.0	-0.84388		-0.90698	-2732.7	-5205.4
							C:129026 NRTPTG3 22.0 129342 NRTHPR		507							
							Open 129026 NRTPTG3 22.0 129342 NRTHPRT2		138 1				1.00000	0.06310	-320.6	-148.6
			34925	2726.3	5205.4		L: Interface 28 LIPA Import			3053.3	5354.0	0.84388		0.90698	2732.7	5205.4
							C:129024 NRTPTG1 22.0 129346 NRTHPT		505							
							Open 129024 NRTPTG1 22.0 129346 NRTHPT3		138 1				-1.00000	0.06310	-320.6	-148.6
			34926	2726.3	5205.4		L: Interface 64 LIPA Export			-3053.3	-5354.0	-0.84388		-0.90698	-2732.7	-5205.4
							C:129024 NRTPTG1 22.0 129346 NRTHPT		505							

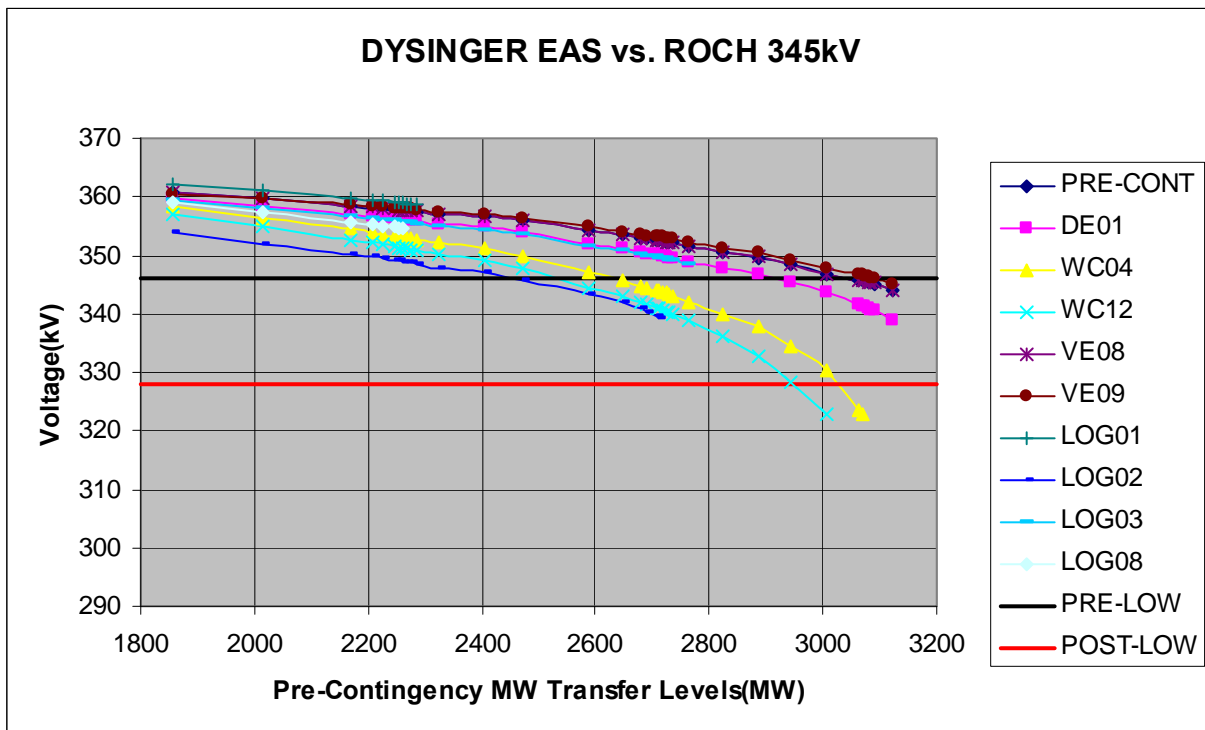
From	To	Transfer Level	N	FCITC	Interface-1	Prag	Limiting Constraint	Contingency	Neon	Preshift	Rating	TDF	LODF	PTDF	Base Case Init	Base Case Final
			34936	2805.8	5277.5		L: Interface	Open 129024 NRTPTG1 22.0 129346 NRTHT3	138 1				1.00000	0.06310	-320.6	-148.6
								C:128910 BRTG9-12 13.8 129203 BARRET	502	2875.1	5354.0	0.88350		0.90698	2732.7	5277.5
								Open 128910 BRTG9-12 13.8 129203 BARRETT2	138 1				-1.00000	0.02349	-142.4	-76.5
			34937	2805.8	5277.5		L: Interface	Open 128910 BRTG9-12 13.8 129203 BARRET	502	-2875.1	-5354.0	-0.88350		-0.90698	-2732.7	-5277.5
								C:128910 BRTG9-12 13.8 129203 BARRET	502							
								Open 128910 BRTG9-12 13.8 129203 BARRETT2	138 1				1.00000	0.02349	-142.4	-76.5
			34938	2820.5	5290.8		L: Interface	Open 128900 BARETG1 20.0 129202 BARRET	499	-2890.9	-5354.0	-0.87328		-0.90698	-2732.7	-5290.8
								C:128900 BARETG1 20.0 129202 BARRET	499							
								Open 128900 BARETG1 20.0 129202 BARRETT1	138 1				1.00000	0.03370	-158.2	-63.2
			34939	2820.5	5290.8		L: Interface	Open 128900 BARETG1 20.0 129202 BARRET	499	2890.9	5354.0	0.87328		0.90698	2732.7	5290.8
								C:128900 BARETG1 20.0 129202 BARRET	499							
								Open 128900 BARETG1 20.0 129202 BARRETT1	138 1				-1.00000	0.03370	-158.2	-63.2
			34940	2821.1	5291.4		L: Interface	Open 129093 PTJEFG4 20.0 129449 PT JEFF2	138 1	2890.4	5354.0	0.87328		0.90698	2732.7	5291.4
								C:129093 PTJEFG4 20.0 129449 PT JEF	512							
								Open 129093 PTJEFG4 20.0 129449 PT JEFF2	138 1				1.00000	0.03370	-157.7	-62.6
			34941	2821.1	5291.4		L: Interface	Open 129093 PTJEFG4 20.0 129449 PT JEF	512	-2890.4	-5354.0	-0.87328		-0.90698	-2732.7	-5291.4
								C:129093 PTJEFG4 20.0 129449 PT JEF	512							
								Open 129093 PTJEFG4 20.0 129449 PT JEFF2	138 1				1.00000	0.03370	-157.7	-62.6
			34942	2822.4	5292.6		L: Interface	Open 129076 HOLTS1-5 13.8 129427 HOLTS GT	138 1	2947.0	5354.0	0.85280		0.90698	2732.7	5292.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS	510							
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT	138 1				-1.00000	0.05418	-214.3	-61.4
			34943	2822.4	5292.6		L: Interface	Open 128958 GLNWD MID 13.8 129281 GLNWD GT	138 1	-2947.0	-5354.0	-0.85280		-0.90698	-2732.7	-5292.6
								C:129076 HOLTS1-5 13.8 129427 HOLTS	510							
								Open 129076 HOLTS1-5 13.8 129427 HOLTS GT	138 1				1.00000	0.05418	-214.3	-61.4
			34944	2824.2	5294.2		L: Interface	Open 128958 GLNWD MID 13.8 129281 GLNWD	504	2792.5	5354.0	0.90698		0.90698	2732.7	5294.2
								C:128958 GLNWD MID 13.8 129281 GLNWD	504							
								Open 128958 GLNWD MID 13.8 129281 GLNWD GT	138 1				-1.00000	0.00000	-59.8	-59.8
			34945	2824.2	5294.2		L: Interface	Open 128958 GLNWD MID 13.8 129281 GLNWD	504	-2792.5	-5354.0	-0.90698		-0.90698	-2732.7	-5294.2
								C:128958 GLNWD MID 13.8 129281 GLNWD	504							
								Open 128958 GLNWD MID 13.8 129281 GLNWD GT	138 1				1.00000	0.00000	-59.8	-59.8
			34946	2829.6	5299.1 *		L: Interface	Open 128901 BARETG2 20.0 129203 BARRET	500	-2851.0	-5354.0	-0.88456		-0.90698	-2732.7	-5299.1
								C:128901 BARETG2 20.0 129203 BARRET	500							
								Open 128901 BARETG2 20.0 129203 BARRETT2	138 1				1.00000	0.02242	-118.3	-54.9
			34947	2829.6	5299.1 *		L: Interface	Open 128901 BARETG2 20.0 129203 BARRET	500	2851.0	5354.0	0.88456		0.90698	2732.7	5299.1
								C:128901 BARETG2 20.0 129203 BARRET	500							
								Open 128901 BARETG2 20.0 129203 BARRETT2	138 1				-1.00000	0.02242	-118.3	-54.9

**APPENDIX D – EMERGENCY VOLTAGE TRANSFER LIMITS – PV  
CURVES**

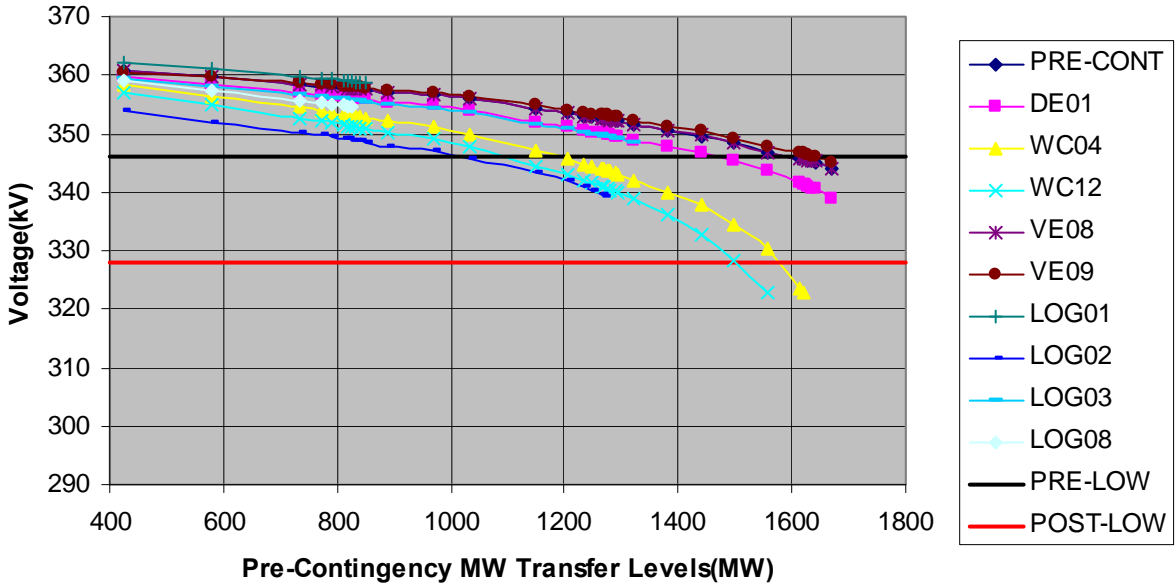
## D.1 Dysinger East & West Central

Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Gardenville 230	135413	230	217	0.943	207	0.900
Niagara 230	147841	230	225	0.978	219	0.952
Niagara 345	147834	345	338	0.980	328	0.951
Oakdale 345	130755	345	336	0.974	320	0.928
Pannel Road 345	149001	345	346	1.003	328	0.950
Rochester 345	149000	345	346	1.003	328	0.950
Somerset 345	130754	345	338	0.980	328	0.950
Watercure 230	130768	230	215	0.935	207	0.900

Contingencies	Description
DE01	L/O STOLLE-MEYER 230 KV (through SHLDN)
WC04	L/O SOMER - ROCH 345 KV
WC12	L/O KIN-ROCH-PARM
VE08	L/O OAK - FRASER 345
VE09	L/O LAFF-OAKDALE 345 KV(Replaced by LAPEER)
LOG01	L/O SOMERSET(KINTIGH)
LOG02	L/O GINNA
LOG03	L/O INDIAN POINT #2
LOG08	L/O 9 MILE #2



### WEST-CENTRAL vs. ROCH 345kV



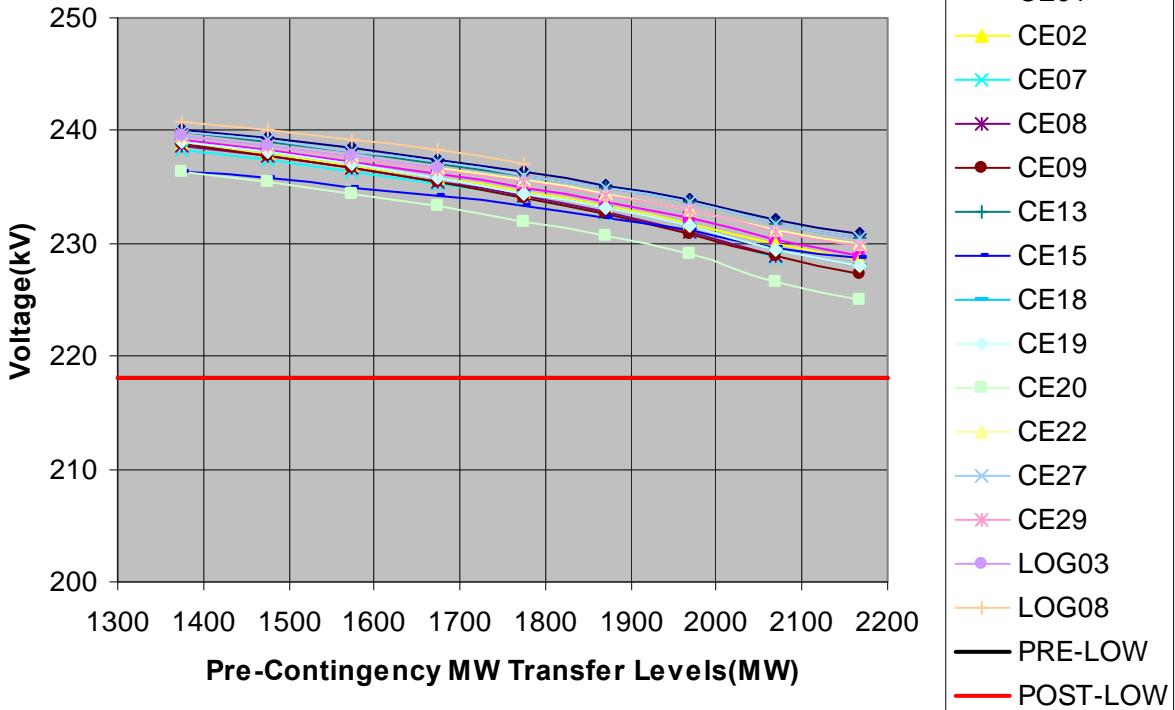
## D.2 Moses South Open

Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Edic 345	137200	345	347	1.006	328	0.951
Fraser 345	130753	345	338	0.980	328	0.951
Leeds 345	137451	345	345	1.000	328	0.951
Marcy 345	147833	345	348	1.009	328	0.951
New Scotland 77 345	137452	345	348	1.009	328	0.951
New Scotland 99 345	137453	345	348	1.009	328	0.951
Oakdale 345	130755	345	336	0.974	320	0.928
Pleasant Valley 345	126294	345	343	0.994	328	0.951
Porter 2 230	137210	230			218	0.948

Contingencies	Description
CE01	L/O EDIC-N.SCOT 345
CE02	L/O MARCY-N.SCT 345
CE07	L/O M-SOUTH N.
CE08	L/O M-SOUTH S.
CE09	L/O FITZ-EDIC-N.S.
CE13	VOLNEY-MARCY(VU-19)
CE15	STK MARCY R3108 BKR
CE18	L/O TWR 34/42 S.
CE19	L/O TWR 34/42 N.
CE20	STK EDIC R70 BRKR
CE22	L/O EDIC-FRASER 345
CE27	L/O CCOR-ROCKTAV 345
CE29	L/O MARCY-EXETER 345
LOG03	L/O INDIAN POINT #2
LOG08	L/O 9 MILE #2



### Moses South vs. Porter 2 230kV

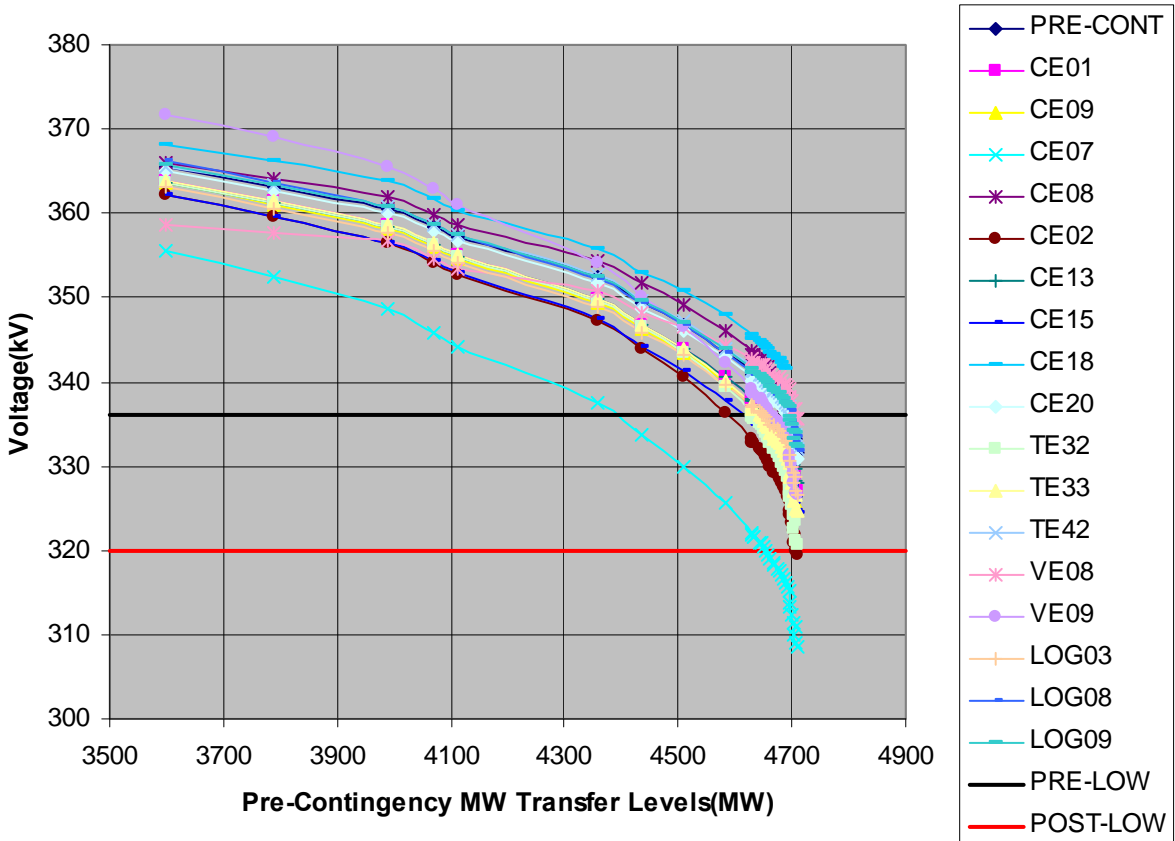


**D.3 Volney East, Total East, Central East, Central East + Fraser-Gilb, CE Group, F to G, Marcy South**

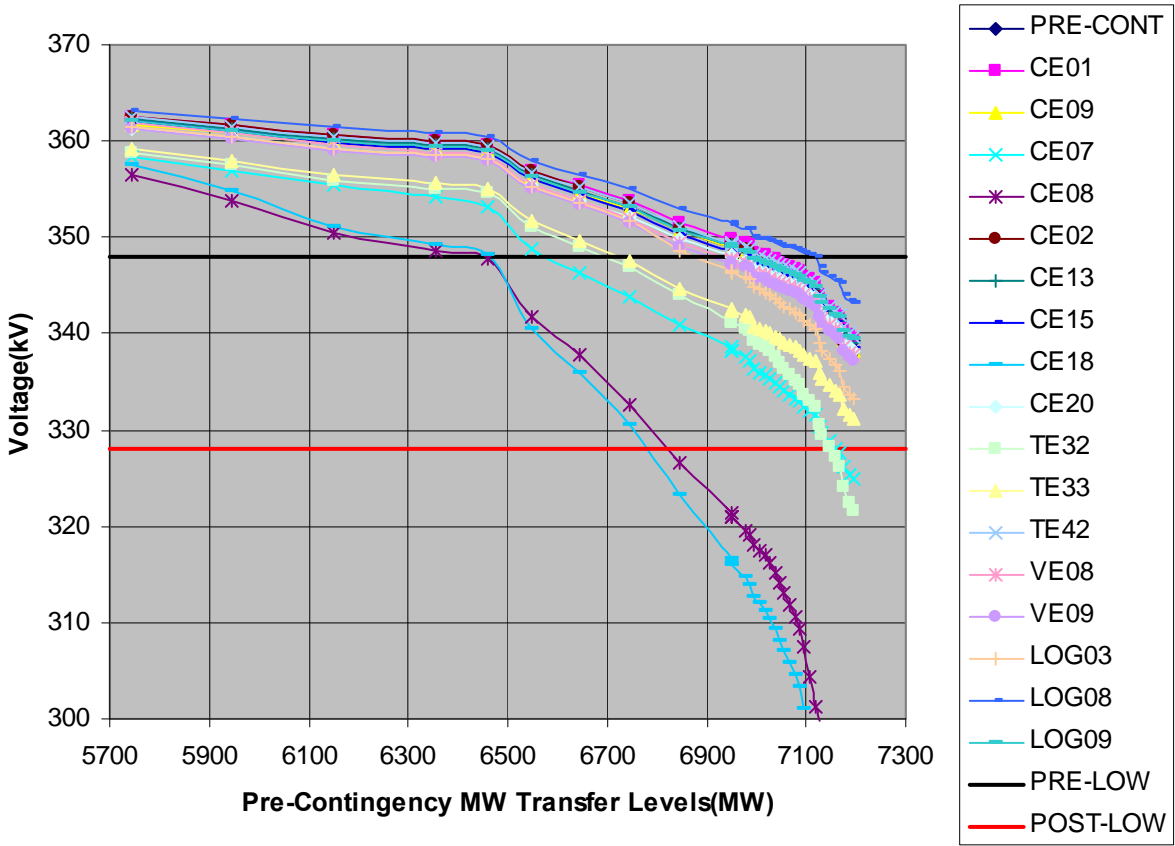
Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Cooper Corners 345	130750	345	338	0.980	328	0.951
Edic 345	137200	345	347	1.006	328	0.951
Fraser 345	130753	345	338	0.980	328	0.951
Leeds 345	137451	345	345	1.000	328	0.951
Marcy 345	147833	345	348	1.009	328	0.951
New Scotland 77 345	137452	345	348	1.009	328	0.951
New Scotland 99 345	137453	345	348	1.009	328	0.951
Oakdale 345	130755	345	336	0.974	320	0.928
Pleasant Valley 345	126294	345	343	0.994	328	0.951
Rock Tavern 345	125001	345	348	1.009	328	0.951
Volney 345	136156	345	328	0.951	328	0.951

Contingencies	Description
CE01	L/O EDIC-N.SCOT 345
CE02	L/O MARCY-N.SCT 345
CE07	L/O M-SOUTH N.
CE08	L/O M-SOUTH S.
CE09	L/O FITZ-EDIC-N.S.
CE13	VOLNEY-MARCY(VU-19)
CE15	STK MARCY R3108 BKR
CE18	L/O TWR 34/42 S.
CE20	STK EDIC R70 BRKR
TE32	L/O NS BUS - ALPS
TE33	L/O NS BUS - GILBOA
TE43	L/O LEEDS - PLEASANT VALLEY 345
VE08	L/O OAK - FRASER 345
VE09	L/O LAFF-OAKDALE 345 KV(Replaced by LAPEER)
LOG03	L/O INDIAN POINT #2
LOG08	L/O 9 MILE #2
LOG09	L/O 9 RAVENSWOOD 3

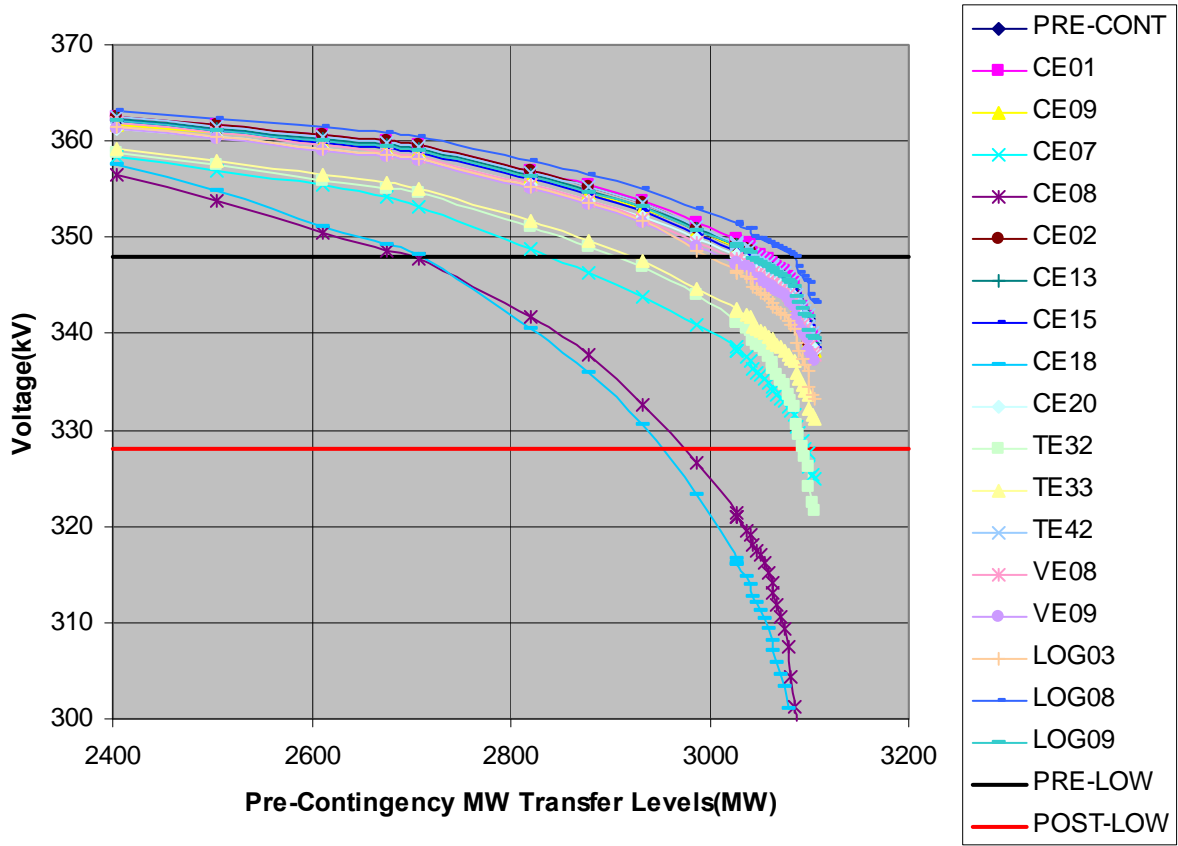
### Volney East vs. OAKDL345 kV



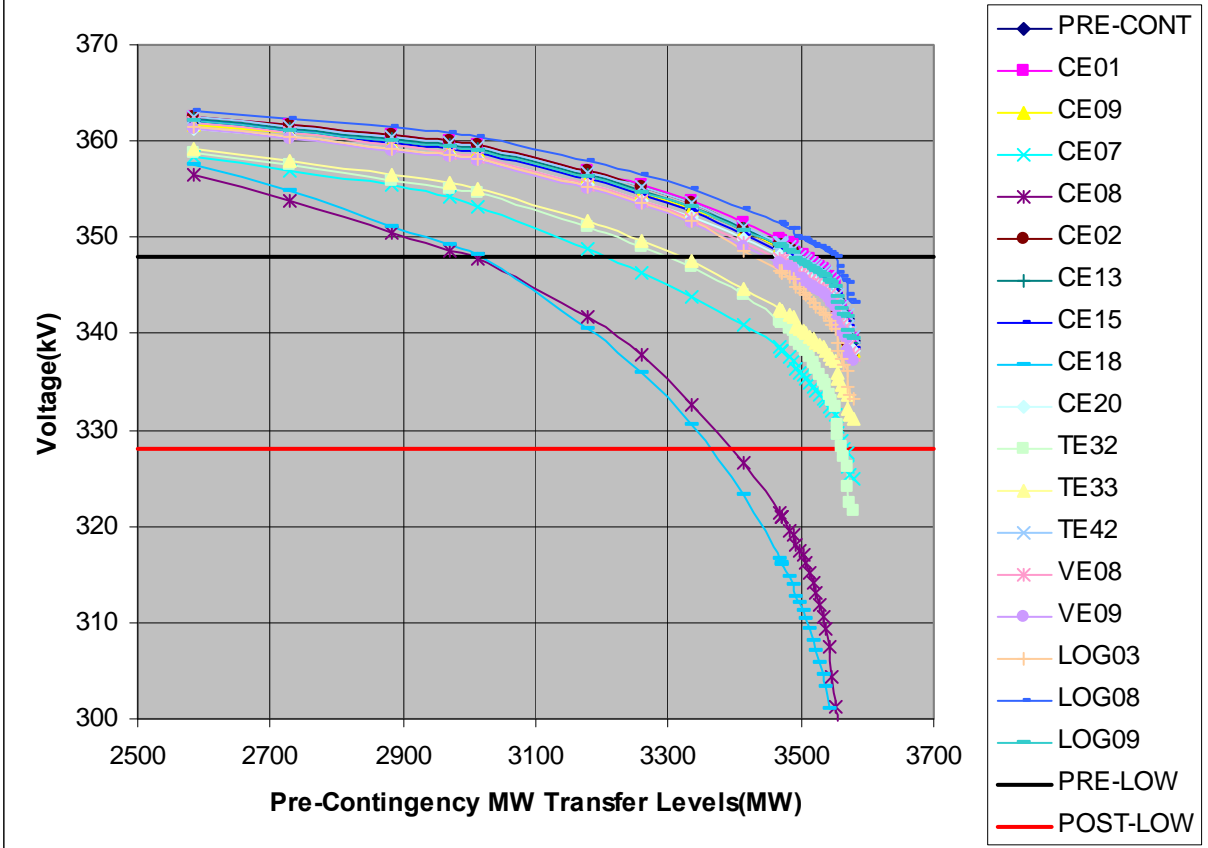
### TOTAL EAST vs. N.SCOT99 kV



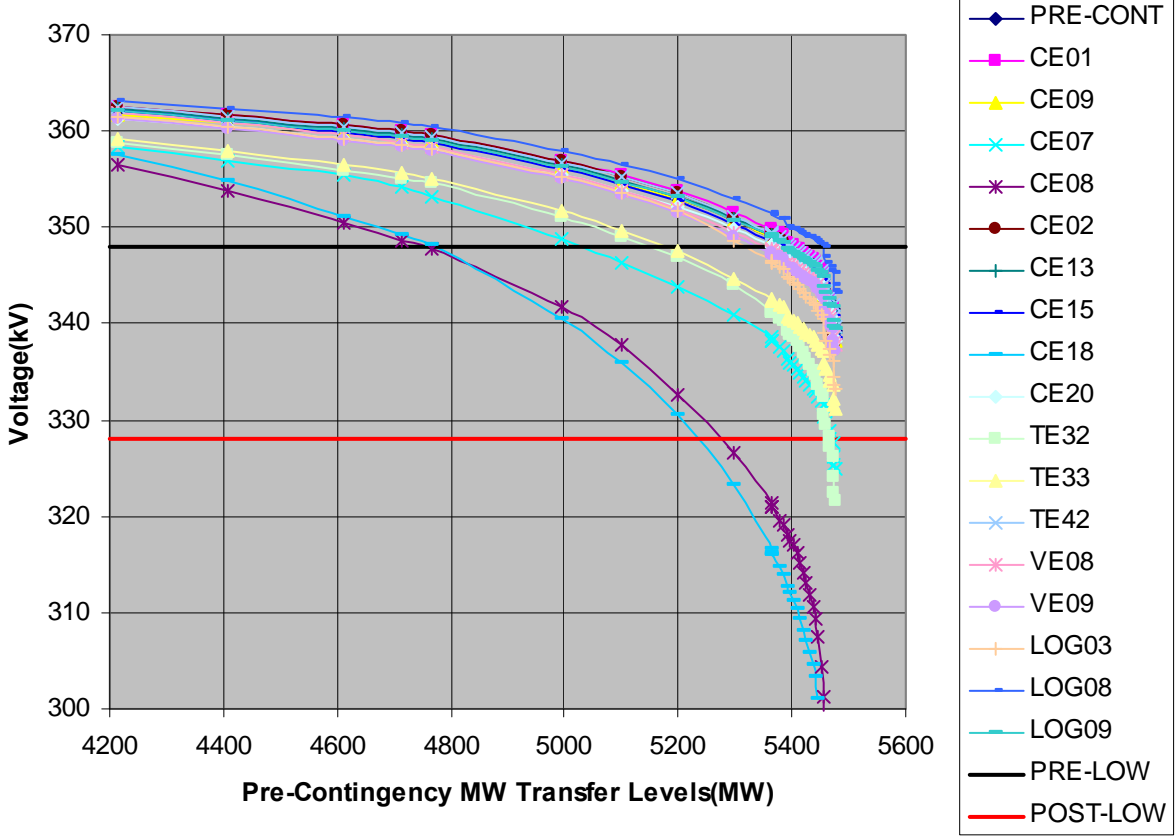
### CENTRAL EAST vs. N.SCOT99 kV



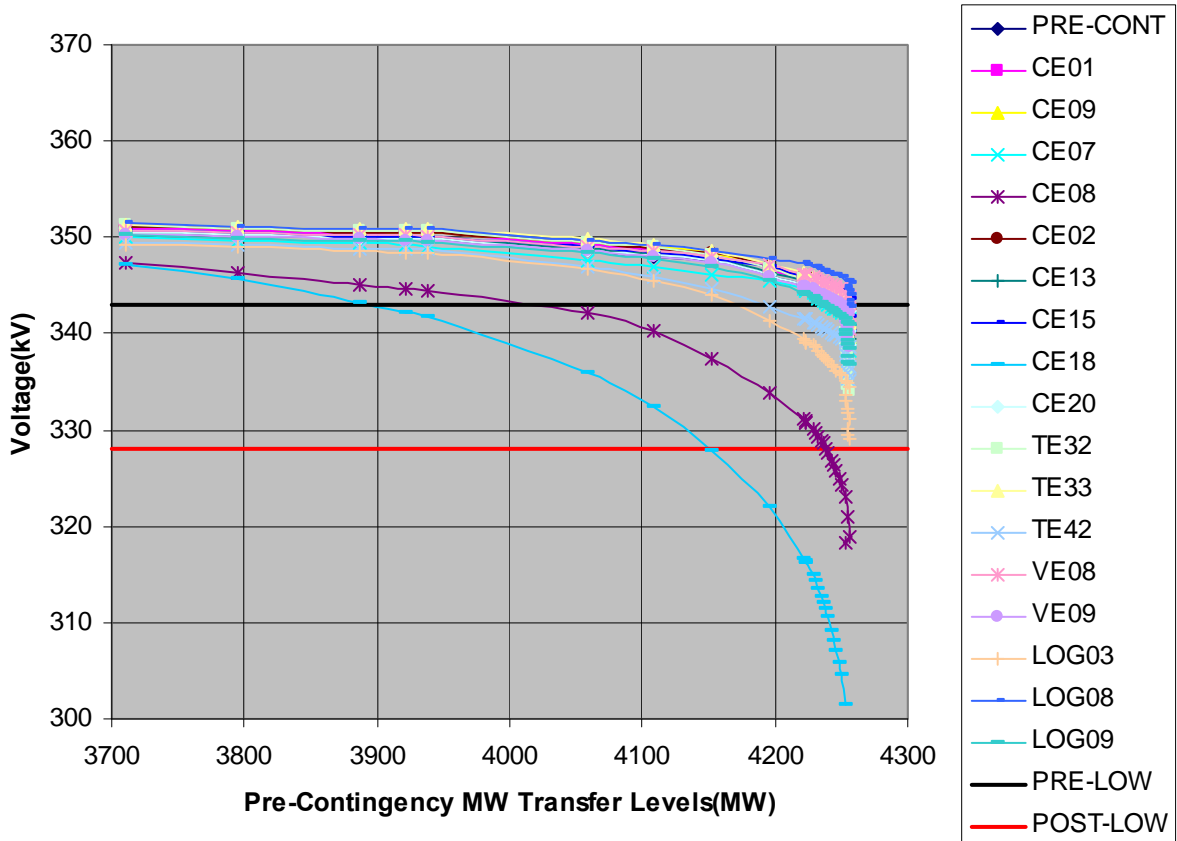
### CE+FRAS-GILB vs. N.SCOT99 kV



### CE-GROUP vs. N.SCOT99 kV

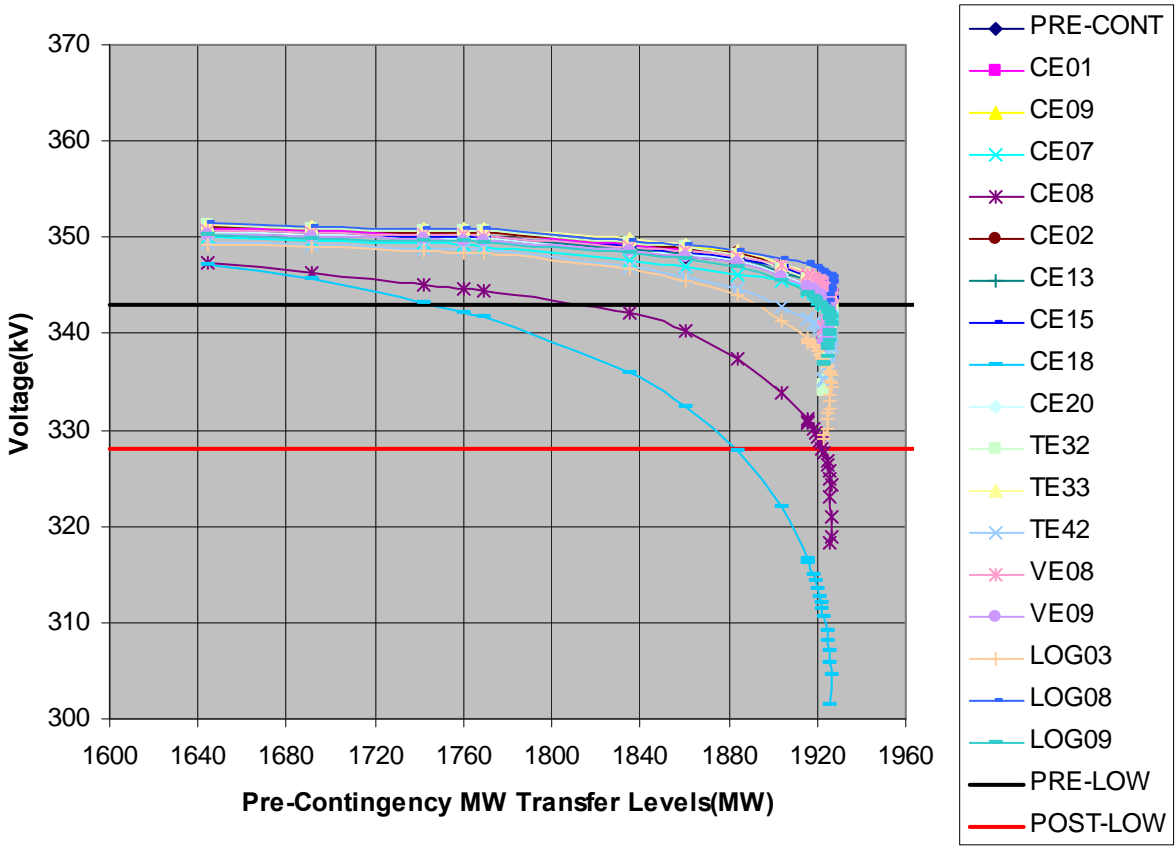


### F-TO-G vs. PLTVLLEY kV





### MARCY SOUTH vs. PLTVLLEY kV

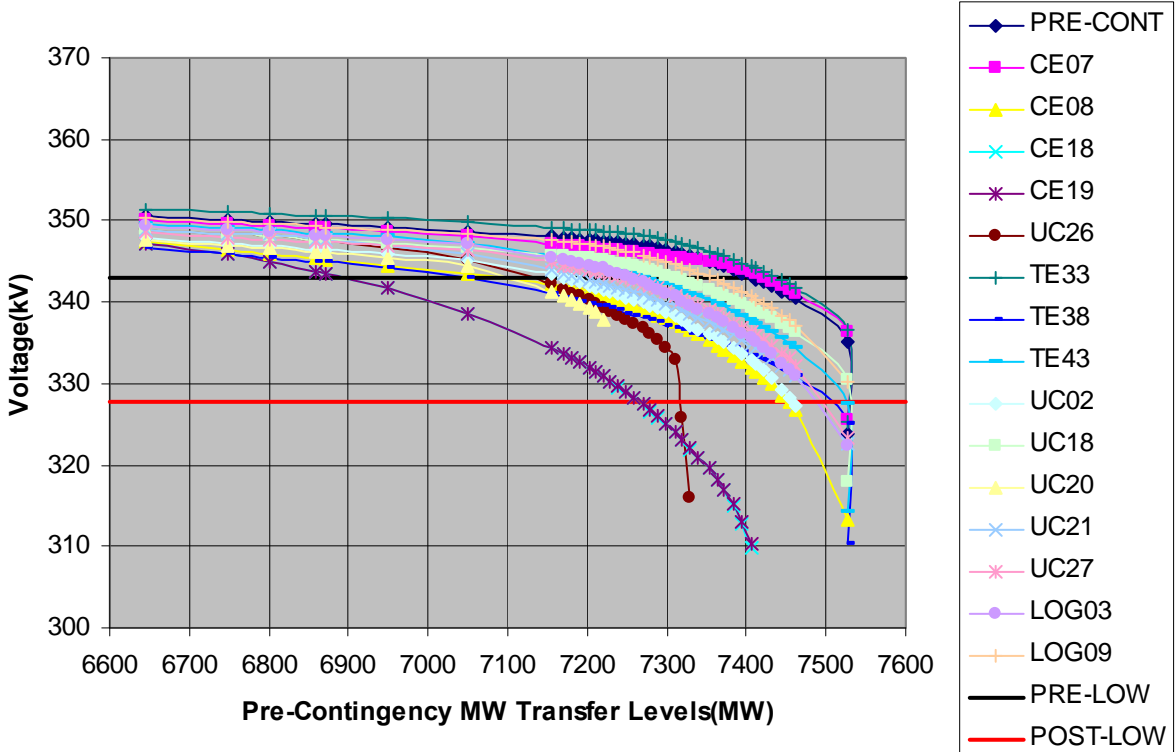


#### D.4 UPNY-SENY Open, UPNY-ConED Open, Millwood South Closed, I to J+K

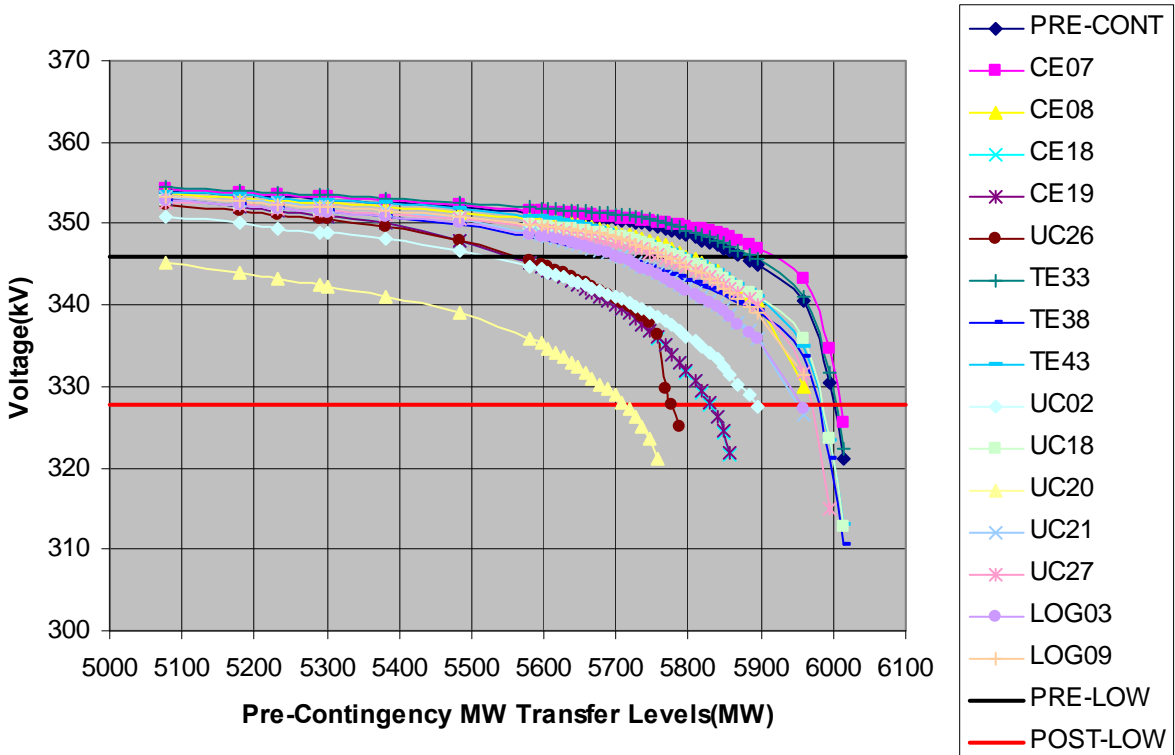
Monitored Buses	Bus Number	Base kV	Pre-Low kV	Pre-Low PU	Post-Low kV	Post-Low PU
Bowline 345	126260	345	345	1.000	328	0.950
Buchanan South 345	126263	345	346	1.003	328	0.950
Coopers Corners 345	130750	345	338	0.980	328	0.950
Dunwoodie 345	126266	345	346	1.003	328	0.950
Edic 345	137200	345	347	1.006	328	0.950
Farragut 345	126277	345	338	0.980	328	0.950
Fraser 345	130753	345	338	0.980	328	0.950
Gilboa 345	147831	345	348	1.009	328	0.950
Goethals N 345	126283	345	338	0.980	328	0.950
Gowanus 345	126286	345	338	0.980	328	0.950
Ladentown 345	126290	345	346	1.003	328	0.950
Leeds 345	137451	345	345	1.000	328	0.950
Marcy 345	147833	345	348	1.009	328	0.950
Millwood 345	126291	345	344	0.997	328	0.950
New Scotland 345 Alps	137452	345	348	1.009	328	0.950
Pleasant Valley 345	126294	345	343	0.994	328	0.950
Rainey 345	126295	345	338	0.980	328	0.950
Ramapo 345	126297	345	346	1.003	328	0.950
Ramapo 500	126250	500	500	1.000	500	1.000
Rock Tavern 345	125001	345	348	1.009	328	0.950
Roseton 345	125002	345	345	1.000	328	0.950
Sprainbrook 345	126298	345	346	1.003	328	0.950

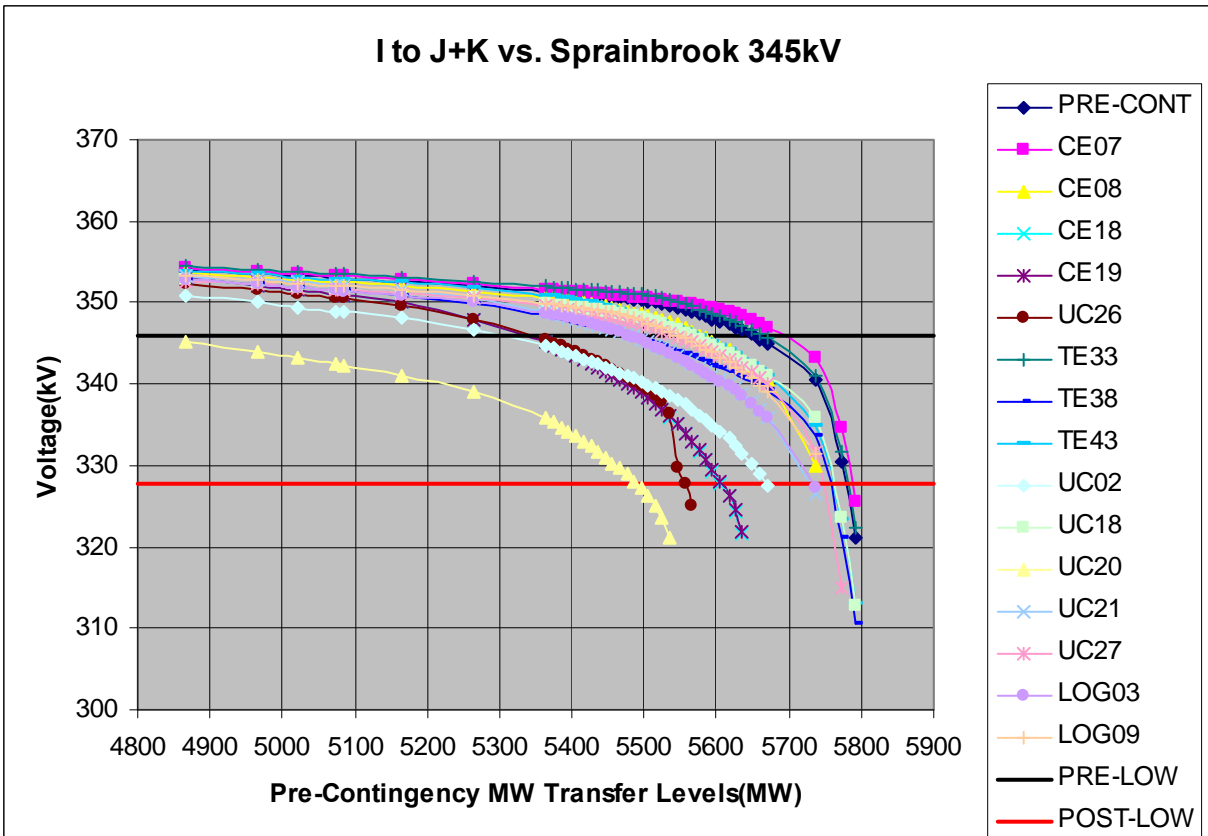
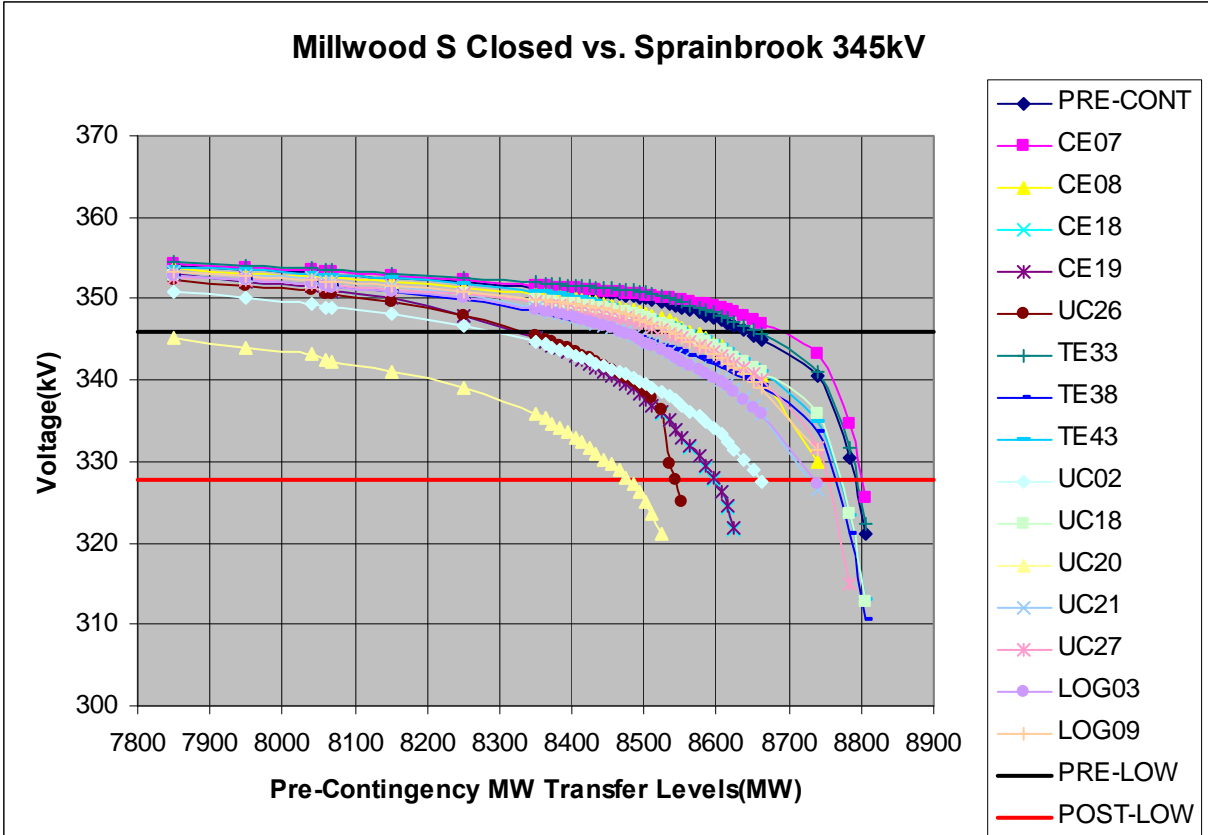
Contingencies	Description
CE07	L/O M-SOUTH N
CE08	L/O M-SOUTH S
CE18	L/O TWR 34/42 S
CE19	L/O TWR 34/42 N
TE32	L/O NS BUS-ALPS
TE33	L/O NS BUS-GILB
TE38	L/O RSTN-FSHKL
TE43	L/O LEED-PV 2
UC02	L/O Y86/Y87
UC18	L/O Y88/Y94
UC20	L/O TWR W89/W90 AT PLEASANTVILLE
UC21	L/O TWR 30/31
UC26	L/O TWR 67/68 AT LADDENTOWN
UC27	L/O SBK ROCK 345
LOG03	L/O IND PT #2
LOG09	L/O RAVENSWOOD #3

**UPNY-SENY vs. Pleasant Valley 345kV**



**UPNY-ConED vs. Sprainbrook 345kV**





# **Attachment #2**

**Wind Transmission Upgrades**

## NYISO Wind Study Wind Generator Additions

### Breakdown of Wind Generation Added by Zone

Wind Case	West	Genesee	Central	North	Mohawk Valley	Capital	NYC & LI	Total
4250	917	86	1110	717	1397	0	0	4227
6000	1291	281	1593	1068	1647	70	0	5949
8000	1492	418	1861	1068	1647	70	1400	7955

### Specific Wind Generators Added by Wind Case

4,250 MW Wind Case	6,000 MW Wind Case	8,000 MW Wind Case	Queue #	Station/Unit	Nameplate Rating (MW)	Zone
x	x	x	I/S	Altona Windfield	99	D
x	x	x	I/S	Bliss Windfield	100.5	A
x	x	x	I/S	Canandaigua II	42.5	C
x	x	x	I/S	Canandaigua Wind Farm	82.5	C
x	x	x	I/S	Chateaugay Windpark	106.5	D
x	x	x	I/S	Clinton Windfield	100.5	D
x	x	x	I/S	Ellenburg Windfield	81	D
x	x	x	I/S	Fenner Wind Power	30	C
x	x	x	I/S	High Sheldon Windfarm	113	C
x	x	x	I/S	Madison Wind Power	11.6	E
x	x	x	I/S	Maple Ridge 1	231	E
x	x	x	I/S	Maple Ridge 2	90.7	E
x	x	x	I/S	Munnsville Wind Power	34.5	E
x	x	x	I/S	Steel Winds	20	A
x	x	x	I/S	Wethersfield 230kV	126	C
x	x	x	I/S	Wethersfield Wind Power	6.6	B
x	x	x	113	Prattsburgh Wind Park	55.5	C
x	x	x	119	Prattsburgh Wind Farm	79.5	C
x	x	x	152	Moresville Energy Center	129	E
x	x	x	155	Canisteo Hills Windfarm	148.5	C
x	x	x	156	Fairfield Wind Project	120	E
x	x	x	157	Orion Energy NY I	100	E
x	x	x	160	Jericho Rise Wind Farm	101.2	D
x	x	x	161	Marble River Wind Farm	88.2	D
x	x	x	166	St. Lawrence Wind Farm	130	E
x	x	x	168	Dairy Hills Wind Farm	120	C
x	x	x	169	Alabama Ledge Wind Farm	79.2	B
x	x	x	171	Marble River II Wind Farm	140.7	D
x	x	x	182	Howard Wind	62.5	C
x	x	x	186	Jordanville Wind	136	E
x	x	x	189	Clayton Wind	126	E

4,250 MW Wind Case	6,000 MW Wind Case	8,000 MW Wind Case	Queue #	Station/Unit	Nameplate Rating (MW)	Zone
x	x	x	197	Tug Hill	78	E
x	x	x	198	New Grange Wind Farm	79.9	A
x	x	x	203	GenWy Wind Farm	478.5	A
x	x	x	207	Cape Vincent	210	E
x	x	x	220	Armenia Mountain I	175	C
x	x	x	221	Armenia Mountain II	75	C
x	x	x	222	Ball Hill Windpark	99	A
x	x	x	234	Steel Winds II	60	A
x	x	x	237	Allegheny Windfield	79	A
	x	x	150	Cherry Valley Wind Power	70	F
	x	x	178	Allegheny Wind	79	A
	x	x	179	Cherry Hill Windpark	102	D
	x	x	187	North Slope Wind	109.5	D
	x	x	215	Noble Burke Windpower	120	D
	x	x	217	Cherry Flats	90	C
	x	x	227	Orleans Wind	120	B
	x	x	236	Dean Wind	150	C
	x	x	238	Tonawanda Creek Wind	75	B
	x	x	239	Western Door Wind	100	C
	x	x	240	Farmersville Windpark	100	A
	x	x	246	Dutch Gap Wind	250	E
	x	x	254	Ripley-Westfield Wind	124.8	A
	x	x	256	Niagara Shore Wind	70.5	A
	x	x	263	Stony Creek Wind Farm	142.5	C
	x	x	241	Chateaugay II Windpark	19.5	D
		x	270	Hounsfield Wind	268.8	C
		x	282	Concord Wind	101.2	A
		x	285	Machias I	79.2	A
		x	297	Ashford Wind	19.9	A
		x	298	Leicester Wind	57	B
		x	301	Hamlin Wind Farm	80	B
		x	327	Offshore Wind	1400	J, K

In order to connect some of the wind generation to the bulk power system it is necessary to upgrade the transmission system. The NYISO Wind Study has analyzed the specific upgrades necessary to reduce or eliminate congestion that limits the energy output of the added wind generators. The list below shows some of these upgrades and their associated cost. The list is not all inclusive as some of the larger upgrades eliminate the need for some smaller upgrades. The Wind Study describes each upgrade in great detail.

## Possible Transmission Upgrades Necessary for “Unbottling” of Wind Generation

Transmission Path or Device	Voltage Level	Upgrade	Approximate Cost (M\$)
Moses-Willis	230 kV	Tower Reconfiguration	2.0
Canandaigua-Hillside& Hillside-Watercure	230 kV	Tower Reconfiguration	2.0
Oakdale-Fraser & Oakdale-Lafayette	230 kV	Tower Reconfiguration	2.0
Montour Falls-Hillside	115 kV	Conductor	20.9
Hillside-North Waverly	115 kV	Conductor	17.5
Canandaigua-Avoca-Hillside	230 kV	Conductor	1.0
(2) Plattsburgh	230/115 kV	Transformers	-
Willis-Plattsburgh	230 kV	Conductor	-
Delhi-Colliers	115 kV	Conductor	0.8
Black River-Taylorville-Lowville	115 kV	Conductor	0.6
Bennett-Howard-Bath-Montour	115 kV	Conductor	3.0
Bennett-Moraine-Meyer	115 kV	Conductor	2.0
Moses-Willis	230 kV	Conductor	2.0
Lighthouse Hill-Mallory	115 kV	Conductor	41.9
Coffeen Street-East Watertown Coffeen Street-Black River Lyme Tap –Coffeen Street	115 kV	Conductor & Towers	10.3
Meyer-Eel Pot Rd-Ecogen-Flat St- Greenidge	115 kV	Conductor	16.0
Plattsburgh	230/115 kV	Transformers	15.0
Taylorville-Boonville	115 kV	Conductor & Terminals	120.9
Black River-North Carthage Black River-Taylorville North Carthage-Taylorville	115 kV	Conductor	38.7
Coffeen Street-Black River	115 kV	Conductor & Station	9.2
Indian River-Black River	115 kV	Bus & Station Connections	0.5
Rockledge Tap-Lyme Tap-Coffeen St Coffeen St-Black River	115 kV	Conductor	24.5
Coffeen Street-Adirondack	230 kV	New Circuit	90.0-133.6

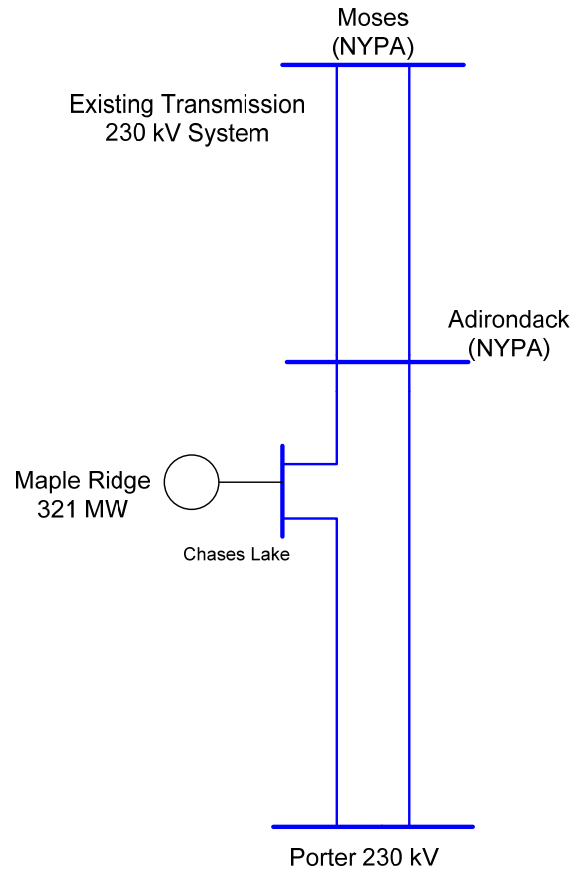
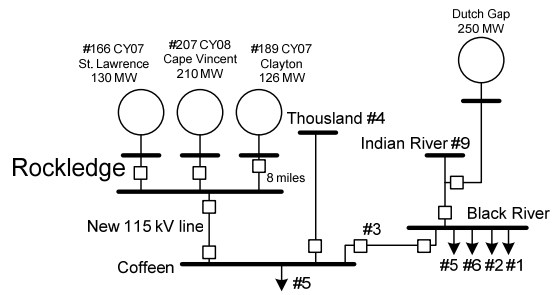
As part of the STARS Base Transmission Plan, the Moses-Adirondack-Porter 230 kV transmission path is upgraded to 345 kV. The Wind Study transmission upgrade at Adirondack includes a 115/230 kV transformer to connect increased wind generation into the 230 kV system. Rather than adding a 230/345 kV transformer to the Wind Study configuration, the STARS study simply replaced the 115/230 kV transformer with a 115/345 kV transformer to connect the wind generation with the new 345 kV STARS transmission configuration. The proposed change eliminates the cost of an additional transformer and the added impedance of two step-up transformers between the Watertown wind generation and the bulk power system.

The three diagrams below show the existing, Wind Study, and STARS transmission configurations in the Watertown area.

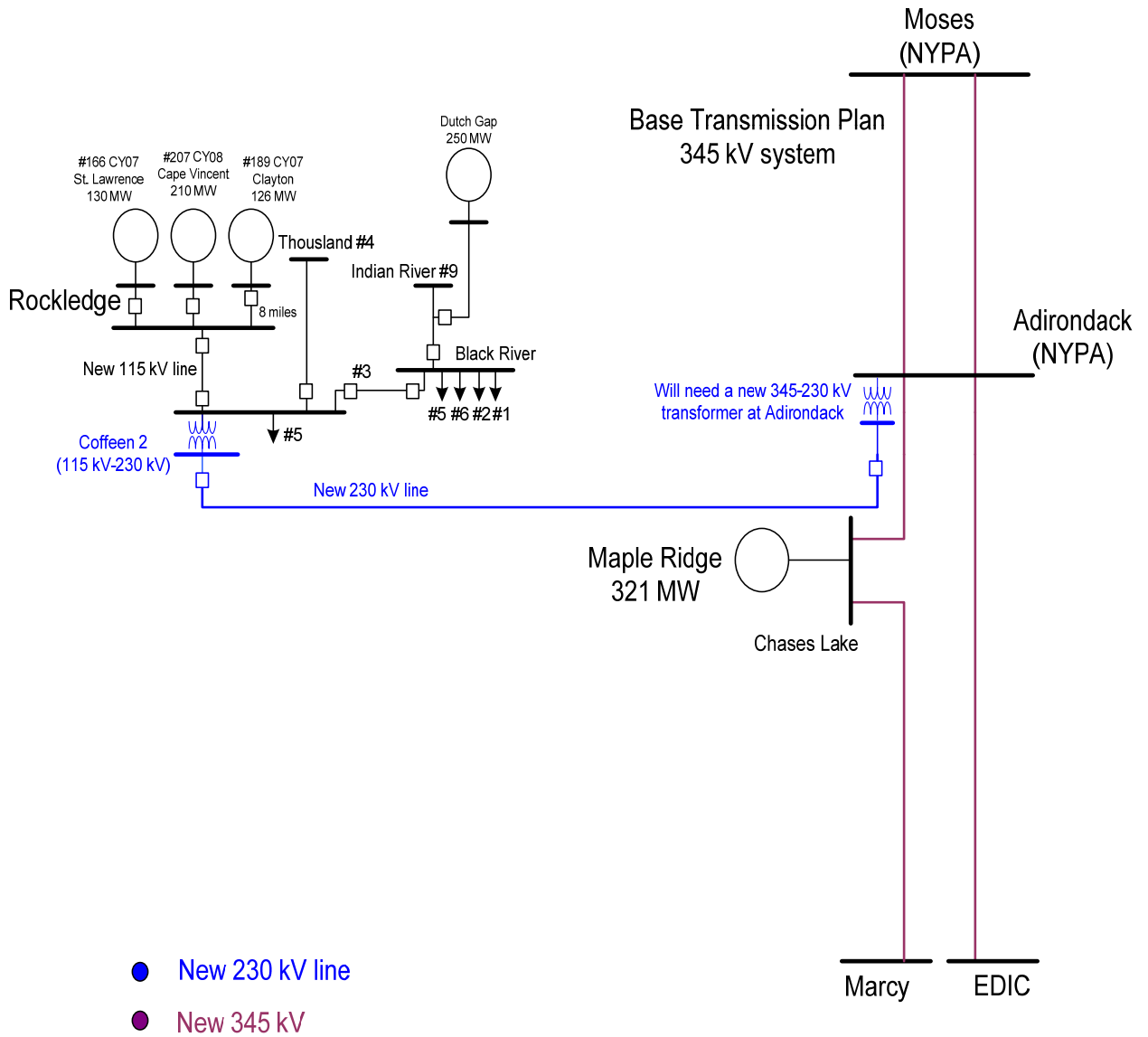


# Jefferson County Wind Study Area

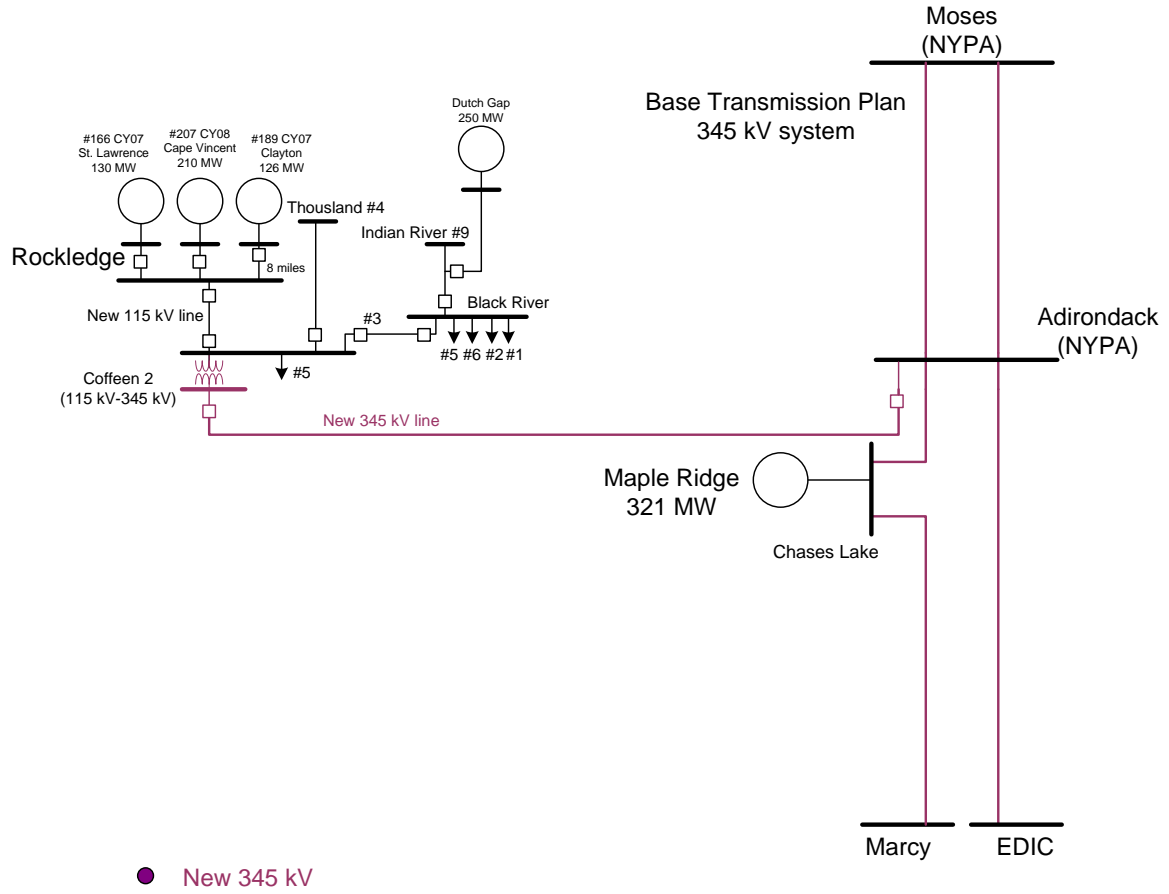
## Existing Transmission System



# NYISO Wind Study Option and STARS Base Transmission Plan



# Recommended Option for STARS



# **Attachment #3**

**STARS Phase II Economic Analysis Assumption Matrix**

STARS Phase II Economic Analysis Assumption Matrix

See June 25, 2010 TPAS Presentation for Additional Information

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
Peak Load	40,816 MW	Average annualized 10 year long term growth rate extended to 20 years (per STARS Phase I report).  Actual study year will be determined by matching the peak load value with the projected load forecasts. This year will be used as a reference for all other forecast.	Forecast as per 2009 RNA Base. Scenarios for other forecasts.	Based on CRP Peak Forecast Use 2009 Base Case Energy Forecast
New York Load Shape Model Energy Forecast	Internal Loads - 2002 load shape adjusted to match energy forecast for 40.8GW year.	CARIS & peak load assumption.	2002 Load Shape, constant over ten year period.  2009 RNA Base Case Forecast	2002 load shape is an appropriate representation for this analysis. For base year, use 2002 Load Shape. Adjusted for Energy Forecast if needed., Evaluate alternative in future
Load Uncertainty Model	N/A	Focus on meeting specific load level.	Statewide and zonal model updated to reflect current data., constant over ten year period	Base Level Forecast will be used. Other load uncertainty levels not evaluated.
Existing Generating Unit Capacities	CARIS	Most Recent CARIS data	Same as CRP - Per 2009 CRP, updated DMNC test values plus units	Any changes in CRP capacities through time to be represented in CARIS.

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
Planned Facilities	2009 RNA Units + Astoria 2 + LIPA Solar + HTP	STARS Scenario Base Case Assumption	As per the CRP and scaled back according to procedure (Tariff Attachment Y: Section 11.3.b).	N/A
Expansion Scenario Units	250 MW Generic Combined Cycle Units	STARS Scenario 3	N/A	N/A
Wind Resource Modeling  Wind Shapes	<p>Replace some new conventional generation with wind generation. Reduce expansion generation from Zone E for adding wind in Zones D &amp;E.</p> <p>Total Nameplate Capacity assumed to be 6000 MW.</p> <p>AWS historical wind shapes.</p> <p>Land Based: 10% capacity factor assumed for sizing and 25% capacity factor used for yearly energy output.</p> <p>Offshore: 30% capacity factor assumed for sizing and 45% capacity factor used for year energy output.</p>	NYISO Wind Study	Existing units derived from hourly wind data with average Summer Peak Hour capacity factor of approximately 11 %. New units from wind shapes from wind study.	Typical shape for location as per MARS and wind studies.
Non-NYPA Hydro Capacity Modeling	CARIS	CARIS	Pondage  Run of River(Hourly)	N/A

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
Special Case Resources	CARIS	CARIS	Those sold for the program, discounted to historic availability and distributed according to zonal performance. Assume 15% growth rate for all zones. Modify load SCR/EOP to proportion available SCR by load amount by zone. See SCR determinations in Attachment G.	N/A
EDRP Resources	CARIS	CARIS	Those registered for the program, discounted to historic availability (45 % overall). July & August values calculated from 2008 July and August registrations.	Need to define costs associated, firm modifiers vs. price responsive.
External Capacity – Purchases	10% external resources assumption of new capacity evenly split between ISO-NE, PJM, & HQ.	STARS Scenario 3	Based on NYISO forecast. Sensitivity performed to remove contracts and see the effect on LCR-IRM curve. Results should not impinge on IRM. Sensitivity with 20 MW MISO wheel through Ontario to Zone A).	N/A
Retirements	CARIS	CARIS	Latest Gold Book information over ten year period.	As per the CRP.
Planned Outages	N/A	N/A	Per 2009 CRP, based on schedules received by NYISO & adjusted for history. constant over ten year period.	As per the CRP.
Outage Scheduling	CARIS	CARIS	Maintenance schedules based on historical data provided.	As per the maintenance schedules in long term adequacy studies.

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
Gas Turbines Ambient Derate	CARIS	CARIS	Continue with approximately XXXX MW after reviewing last year's data, constant over ten year period.	Reflected only in summer/winter ratings.
Environmental Modeling Externalities Allowances	CO2 at \$45/ton NOx at \$2,122/ton SO2 at \$468/ton	CARIS II 2010	Included in the Base Case and modified in the scenarios  Built into the development of cost curves of resources. Optimization is cost driven.	Any impacts assumed in CRP carried forward.  Limits on emissions done through allowances, not hard limits.  Allowance cost from Chicago Climate Futures Exchange.
Commitment and Dispatch Options  Operating Reserves	CARIS	CARIS	Each Balancing Authority Commits separately. Separate hurdle rates are employed for commitment and dispatch allowing for appropriate inter-area transfers. Operating Reserves as per NYCA requirements.	N/A
Fuel Price Forecast	Updated EIA data from CARIS, align with 40.8 GW peak load year.	Public information (EIA) which extends to 2035 and historical data.	EIA data obtained quarterly, adjusted for seasonality on monthly basis, monthly volatility based on historical patterns.	NYISO to calibrate forecast based on public information and historical data.
Cost Curve Development	CARIS	CARIS	Developed from Heat Rate Curve, Fuel Price forecast, environmental adders, penalty factors.	Allowances from Chicago Climate Futures Exchange, Heat Rate development under discussion. Unit specific heat rates are confidential and not disclosed.



<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
Heat Rates NYCA External Systems	CARIS	CARIS	Developed from vendor supplied data and fuel input data matched with MWh data for NYCA.	
Local Reliability Rules	CARIS	CARIS	List and develop appropriate nomograms.	Fuel burn restrictions, operating restrictions and exceptions, commitment/dispatch limits.
Energy Storage Gilboa PSH Lewiston PSH	CARIS	CARIS	Gilboa and Lewiston scheduled against NYCA.	N/A
<b>Transmission System Model</b>				
Power Flow Cases	ABB power flow with replacement upgrades and new generation units and busses.	ABB	As per CRP.	N/A
Interface Limits  Monitored/contingency pairs  Nomograms Joint, Grouping Unit Sensitive Voltage	Updated Phase I STARS limits. A new set of limits will also be created based on Base Transmission Plan line additions for each analyzed Trial.  Central-East & Moses-South Interfaces  West-Central Interface	Thermal limits calculated within security analysis function of GridView.  Voltage & stability limits modeled explicitly  Voltage limit alleviated by capacitor banks additions	Transfer limit analysis done in RNA/CRP for critical interfaces. External system limits from input from neighboring systems.	Based on historical congestion, planning study results, NERC book of flowgates, PROBE/SCUC list of active/potential constraints, Special Protections Systems including Athens SPS in 2009 and 2010.

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
New Transmission Capability	CARIS + replacement upgrades.	STARS Base Transmission Plan provides upgrades to maintain existing thermal capability levels to meet reliability needs in the future.	As per CRP.	N/A
Internal Controllable Lines (PARs,DC,VFT)	CARIS	CARIS	Optimized in simulation.	N/A
<b>Neighboring Systems</b>				
Outside World Area Models  Fuel Forecast	CARIS	CARIS	Power flow data from CRP, “production” data developed by NYISO with vendor and neighbor input. Linked with NYCA forecast.	N/A
External Capacity  Load Forecast	CARIS  External load remains same. Typical imports/exports maintained by hurdle rates and average heat rates.	CARIS	Firm and grandfathered are included.  Neighboring systems data reviewed and held at required reserve margin.	Neighboring systems modeled consistent with reserve margins in the RNA/CRP analysis.

Parameter	Modeling for STARS Base Cases	Basis for Recommended Assumptions for STARS	Modeling for CARIS Base Cases	Basis for Recommended Assumptions for CARIS
<p>External System Representation in Simulation</p> <p>Price Flexible HQ Model</p>	<p>CARIS</p> <p>Historical HQ flow pattern analyzed and pricing model developed to simulate flow magnitude and total energy of HQ interchange</p>	<p>CARIS</p>	<p>HQ modeled as load/generation pair.</p> <p>Full Representation/Participation</p> <ul style="list-style-type: none"> <li>- NYISO</li> <li>- NE-ISO</li> <li>- IESO</li> <li>- PJM Classic &amp;</li> </ul> <p><u>Full Representation:</u>            NYISO,NEISO,IESO,PJM (PJM Classic, AP,AEP,CE,DLCO,DAY,VP)</p> <p><u>Proxy Bus:</u>            HQ-NYISO, HQ-NEISO</p> <p><u>Transmission Only/Zeroed Out:</u>            MECS,FE,SPP, MAR, NIPS,OVEC,TVA, FRCC,SERC,ERCOT,WECC</p>	<p>N/A</p>
<p>External Controllable Lines (PARs,DC,VFT, Radial lines)</p>	<p>CARIS</p> <p>Norwalk altered to +/- 200 MW</p> <p>HTP</p>	<p>CARIS</p> <p>LIPA Rating Change</p> <p>Basecase Assumption</p>	<p>A,B,C and J,K “wheel”</p> <p>Both sets set at 600 min, 1200 max, imbalance monitored</p> <p>Ramapo +/- 1000 MW</p> <p>Norwalk +/- 100 MW</p> <p>L33,34 - +/- 300 MW</p> <p>PV20 – 130, 0 MW</p> <p>Neptune and CSC as per CRP firm X 24 hrs, economy remainder</p>	<p>N/A</p>

<b>Parameter</b>	<b>Modeling for STARS Base Cases</b>	<b>Basis for Recommended Assumptions for STARS</b>	<b>Modeling for CARIS Base Cases</b>	<b>Basis for Recommended Assumptions for CARIS</b>
ICAP Cost Calculation	<p>Variant 1: MW Impact of Project x Marginal ICAP Cost for Projected Available ICAP</p> <p>Variant 2: Projected Available ICAP MW x (Marginal ICAP Cost for Projected Available ICAP – Marginal ICAP Cost After Adding New Project MW to Available Capacity)</p>	Compliance Filing of the New York Independent System Operator, Inc. and the New York Transmission Owners, Docket No. OA08-52-008		

# **Attachment #4**

**STARS Economic Analysis Update (HQ Model)**

# **STARS Economic Analysis Update**

**STARS In-Person Meeting**

*December 09, 2010*

*@ Central Hudson*

DRAFT - For Discussion Purposes  
Only

# Topics

- Proposed Model Updates
- New HQ Model Development
- New HQ Model Results

# Proposed Model Updates

- National Grid Leeds-Athens-Pleasant Valley & Leeds Pleasant Valley BTP Line Impedance Corrections



# New HQ Model Development

- Load/Generator Pair
- HQ Load
  - Hourly resource with negative generation
  - Shape mimics HQ hourly loads in 2008 (winter peaking condition, adjusting the peak load to 1000).
- HQ Generation
  - 7-block heat-rate thermal generation
  - Monthly fuel prices adjusted to match the monthly target energy based on 2.5 year historical data
- Total HQ import in RIK case ~ 5000 GWh/year based on historical data
- Wheeling through NYISO not modelled

# New HQ Model Development

- Simulation Case Progression
  - Fixed Schedule HQ Model w/ 1200 MW Limit
  - Price Flexible HQ Model w/ 1200 MW Limit
  - Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits
    - Results Provided through 12/06 Email
  - Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits w/ Total Energy Corrected
  - Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits w/ Total Energy Corrected & Hurdle Rate Limits/Penalties Adjusted

# New HQ Model Results

- Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits
- Production Cost Savings when Adding BTP:

*NYISO Savings Due to BTP*

<b>STARS Case</b>	<b>Production Cost Savings (M\$)</b>	<b>Import Cost Savings (M\$)</b>	<b>Emissions Cost Savings (M\$)</b>	<b>Total NYISO Production Cost Savings (M\$)</b>	<b>Load LBMP Payment Savings (M\$)</b>
Reference Case (Fixed HQ Model)	232	-8	1	225	54
HQ 1380 MW Case (Variable HQ Model)	293	-18	2	277	236
HQ 1800 MW Case (Variable HQ Model)	306	-28	3	280	262

# New HQ Model Results

- Reference Case Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	4,056,930	5,428,009	1,371,079	216	300	84
Neptune	5,076,509	4,940,021	-136,489	466	442	-24
HQ	4,581,468	4,595,954	14,486	327	367	40
CSC	518,374	470,348	-48,027	36	33	-3
PJM	2,845,860	1,867,265	-978,595	155	75	-79
ISO-NE	-4,606,038	-4,737,830	-131,793	-415	-424	-9
<b>Total</b>	<b>12,473,103</b>	<b>12,563,766</b>	<b>90,663</b>	<b>785</b>	<b>793</b>	<b>8</b>

# New HQ Model Results

- Price Flexible HQ Model w/ 1380 MW Limit Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	3,922,271	4,986,613	1,064,342	197	262	65
Neptune	5,081,248	4,886,516	-194,732	466	434	-32
HQ	2,319,224	5,162,494	2,843,270	179	387	208
CSC	522,496	492,262	-30,234	36	34	-2
PJM	2,461,727	1,052,328	-1,409,399	122	6	-116
ISO-NE	-5,279,601	-6,486,600	-1,207,000	-481	-586	-105
<b>Total</b>	<b>9,027,366</b>	<b>10,093,613</b>	<b>1,066,247</b>	<b>518</b>	<b>536</b>	<b>18</b>

# New HQ Model Results

- Price Flexible HQ Model w/ 1800 MW Limit Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	3,847,490	4,866,480	1,018,989	192	254	62
Neptune	5,083,793	4,880,406	-203,387	466	433	-33
HQ	2,591,848	5,898,793	3,306,944	198	441	243
CSC	524,455	496,168	-28,287	36	34	-2
PJM	2,447,941	982,791	-1,465,150	121	0	-121
ISO-NE	-5,365,294	-6,742,854	-1,377,560	-490	-611	-120
<b>Total</b>	<b>9,130,233</b>	<b>10,381,783</b>	<b>1,251,550</b>	<b>523</b>	<b>551</b>	<b>28</b>

# New HQ Model Results

- Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits w/ Total Energy Corrected
- Production Cost Savings when Adding BTP:

*NYISO Savings Due to BTP*

<b>STARS Case</b>	<b>Production Cost Savings (M\$)</b>	<b>Import Cost Savings (M\$)</b>	<b>Emissions Cost Savings (M\$)</b>	<b>Total NYISO Production Cost Savings (M\$)</b>	<b>Load LBMP Payment Savings (M\$)</b>
Reference Case (Fixed HQ Model)	232	-8	1	225	54
HQ 1380 MW Case (Variable HQ Model)	303	-6	3	299	239
HQ 1800 MW Case (Variable HQ Model)	320	-21	3	301	277

# New HQ Model Results

- Price Flexible HQ Model w/ 1380 MW Limit w/ Total Energy Corrected Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	3,211,685	4,548,857	1,337,172	159	237	78
Neptune	5,091,921	4,886,635	-205,286	466	432	-34
HQ	4,472,961	7,183,613	2,710,652	306	501	195
CSC	528,731	506,097	-22,634	36	35	-2
PJM	2,266,174	893,309	-1,372,865	108	-4	-113
ISO-NE	-5,853,663	-7,263,660	-1,409,997	-534	-652	-118
<b>Total</b>	<b>9,717,810</b>	<b>10,754,851</b>	<b>1,037,042</b>	<b>542</b>	<b>548</b>	<b>6</b>



# New HQ Model Results

- Price Flexible HQ Model w/ 1800 MW Limit w/ Total Energy Corrected Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	3,069,852	4,270,072	1,200,219	150	219	69
Neptune	5,098,093	4,882,167	-215,926	467	431	-36
HQ	4,970,632	8,395,356	3,424,725	338	584	246
CSC	533,687	513,930	-19,757	37	35	-2
PJM	2,234,814	814,745	-1,420,069	106	-11	-117
ISO-NE	-6,004,457	-7,655,823	-1,651,367	-549	-688	-139
<b>Total</b>	<b>9,902,622</b>	<b>11,220,446</b>	<b>1,317,825</b>	<b>549</b>	<b>570</b>	<b>21</b>

# New HQ Model Results

- BTP Utilization:

From Bus	To Bus	Reference Case	New HQ Model w/1380 MW Case	New HQ Model w/ 1800 MW Case
PLTVLLEY	LEEDS 3	61.8%	65.8%	66.3%
PLTVLLEY	ATHENS	60.4%	64.2%	64.7%
LEEDS 3	PLTVLLEY	45.7%	48.6%	49.0%
JORDNVLL	PRINCETW	41.6%	47.8%	48.7%
PRINCETW	ROTRDM.2	38.6%	43.8%	44.6%
PRINCETW	ROTRDM.2	38.6%	43.8%	44.6%
N.SCOT77	LEEDS 3	33.1%	35.9%	36.3%
ROCK TAV	RAMAPO	31.3%	33.3%	33.5%
FRASR345	OAKDL345	24.5%	24.3%	24.1%
PLTVLLEY	RULND RD	23.0%	25.7%	26.1%
PRINCETW	N.SCOT99	22.7%	26.4%	26.9%
LEEDS 3	ATHENS	16.6%	15.9%	15.8%
CHASES L	MARCY T1	15.0%	16.2%	16.9%
ADRON B2	EDIC	13.7%	14.8%	15.5%
ADRON B1	CHASES L	10.1%	11.0%	11.7%
MOSES W	ADRON B1	10.0%	11.0%	11.7%
MOSES W	ADRON B2	9.6%	10.8%	11.6%
PLTVLLEY	SPRBROOK	6.0%	7.0%	7.2%

# New HQ Model Results

- Price Flexible HQ Model w/ 1380 MW & 1800 MW Limits w/ Total Energy Corrected & Hurdle Rate Limits/Penalties Adjusted
- Production Cost Savings when Adding BTP:

*NYISO Savings Due to BTP*

<b>STARS Case</b>	<b>Production Cost Savings (M\$)</b>	<b>Import Cost Savings (M\$)</b>	<b>Emissions Cost Savings (M\$)</b>	<b>Total NYISO Production Cost Savings (M\$)</b>	<b>Load LBMP Payment Savings (M\$)</b>
Reference Case (Fixed HQ Model)	232	-8	1	225	54
HQ 1380 MW Case (Variable HQ Model)					
HQ 1800 MW Case (Variable HQ Model)	324	-27	3	299	252

# New HQ Model Results

- Price Flexible HQ Model w/ 1800 MW Limit w/ Total Energy Corrected & Hurdle Rate Limits/Penalties Adjusted Imports/Exports

External Interface	RIK Import Amount (MWh)	BTP Import Amount (MWh)	(BTP - RIK) Import Amount (MWh)	RIK Import Cost (\$M)	BTP Import Cost (\$M)	(BTP - RIK) Import Cost (\$M)
IESO	3,460,769	4,581,396	1,120,627	173	238	66
Neptune	5,128,265	4,938,611	-189,654	470	438	-33
HQ	6,066,307	9,161,573	3,095,267	415	640	225
CSC	563,738	552,348	-11,390	39	38	-1
PJM	2,384,086	1,074,173	-1,309,913	116	8	-108
ISO-NE	-5,434,205	-6,868,286	-1,434,082	-497	-619	-122
<b>Total</b>	<b>12,168,960</b>	<b>13,439,815</b>	<b>1,270,855</b>	<b>717</b>	<b>744</b>	<b>27</b>

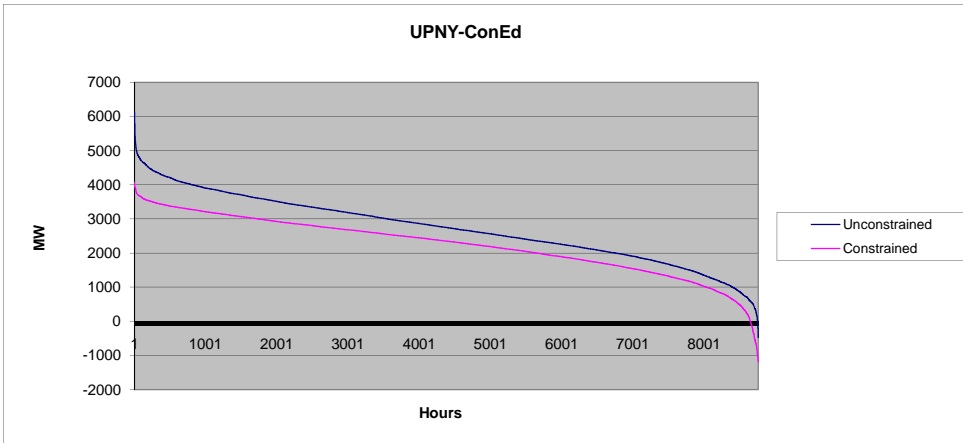
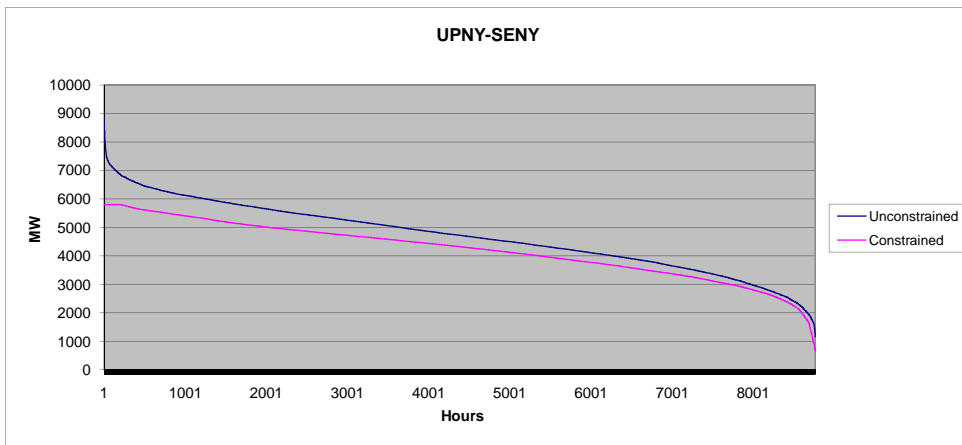
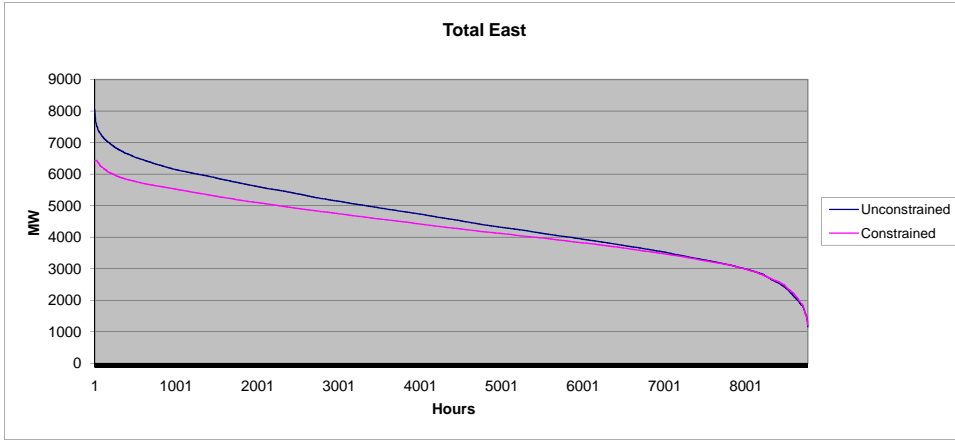
# Questions

DRAFT - For Discussion Purposes  
Only

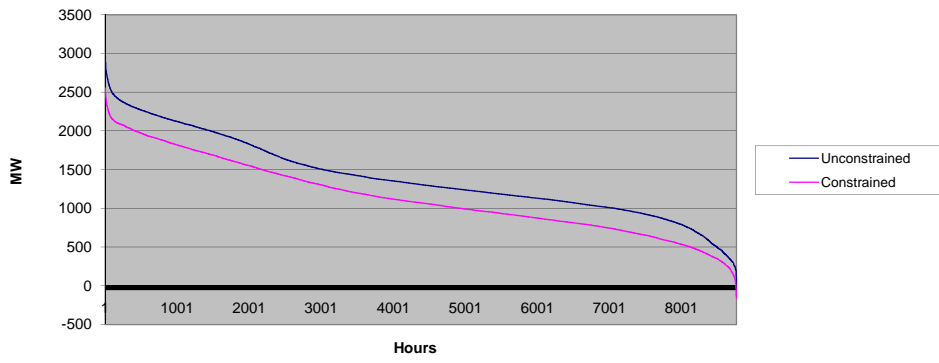
# **Attachment #5**

**Load Duration Curves**

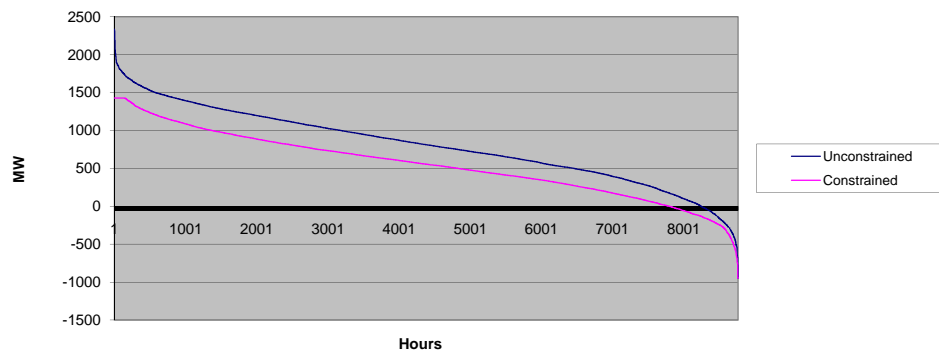
# STARS Economic Simulation Interface Duration Curves and Tables



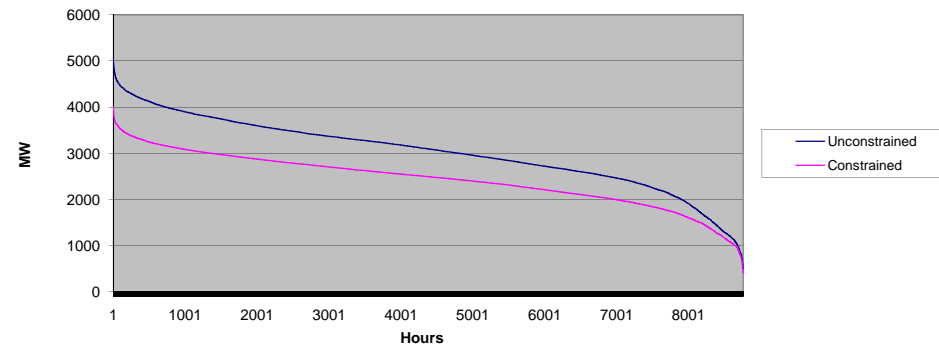
Dysinger East



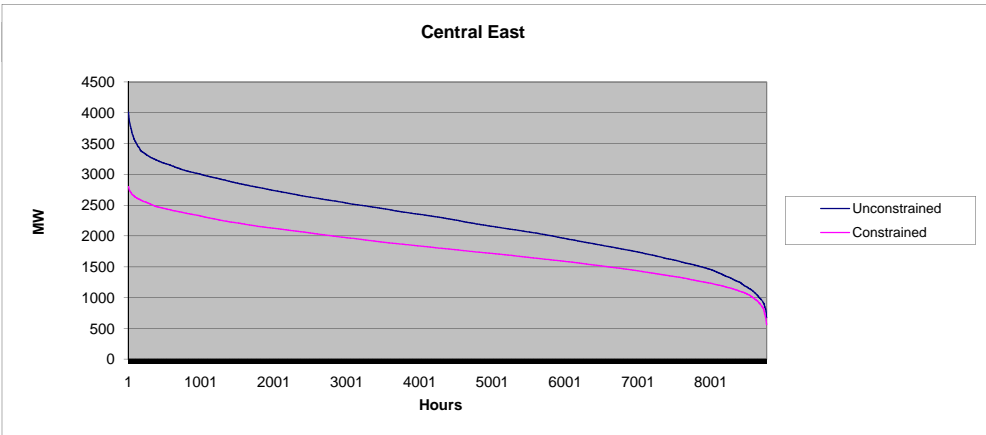
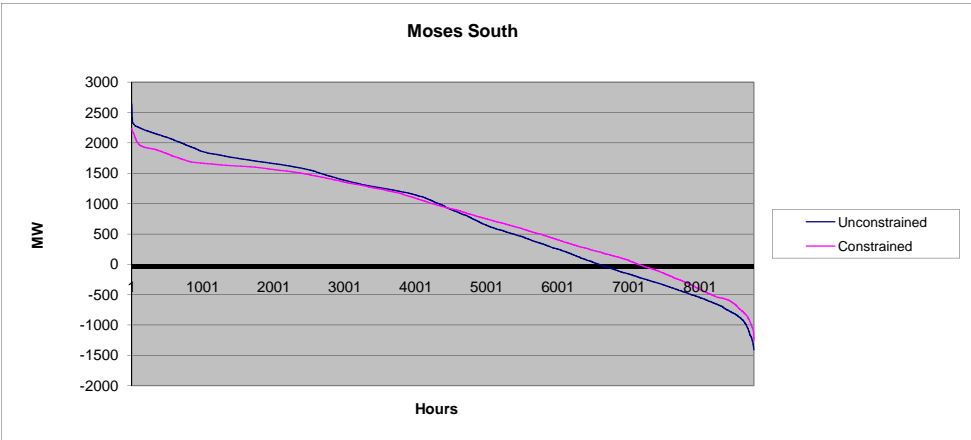
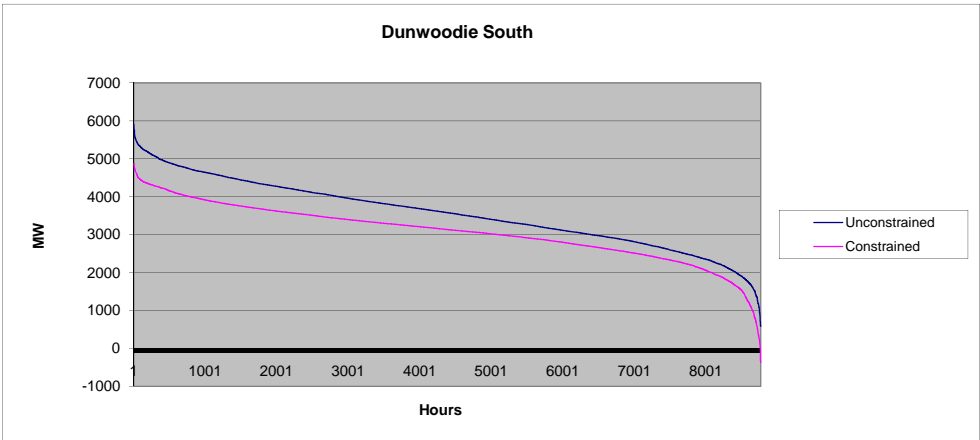
West Central

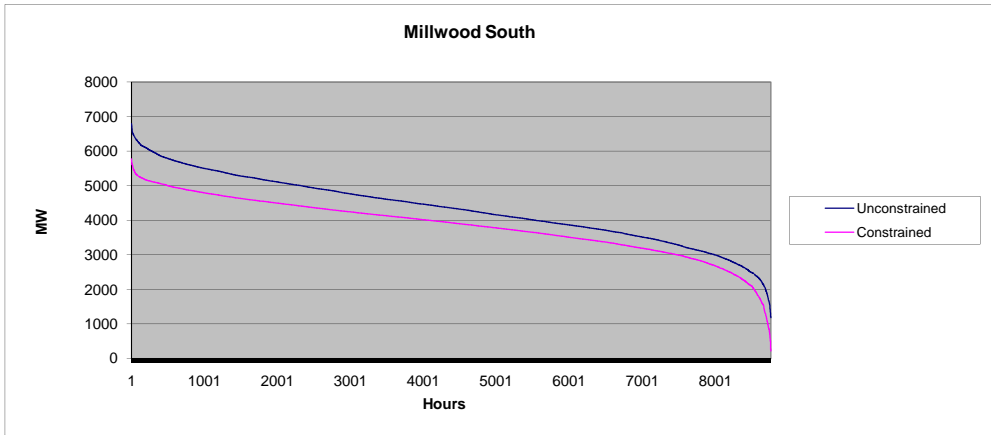


Volney East









Percentile	TOTAL EAST		
	Unconstrained	Constrained	Δ
100	8,033	6,425	1,608
95	6,604	5,804	801
90	6,222	5,576	646
85	5,973	5,376	597
80	5,733	5,181	552
75	5,515	5,025	490
70	5,302	4,863	439
65	5,106	4,719	387
60	4,923	4,573	350
55	4,753	4,433	320
50	4,567	4,291	275
45	4,377	4,161	216
40	4,222	4,035	187
35	4,043	3,909	134
30	3,885	3,782	103
25	3,705	3,627	77
20	3,522	3,466	56
15	3,299	3,271	27
10	3,060	3,062	-1
5	2,641	2,661	-19
0	1,154	1,200	-45
Percentile	UPNY-ConEd-OP		
	Unconstrained	Constrained	Δ
100	8,835	5,800	3,035
95	6,527	5,641	886
90	6,190	5,456	733
85	5,972	5,276	696
80	5,760	5,099	661
75	5,568	4,957	611
70	5,401	4,827	574
65	5,231	4,705	525
60	5,060	4,584	476
55	4,884	4,457	427
50	4,728	4,328	400
45	4,563	4,188	376
40	4,408	4,042	366
35	4,239	3,883	356
30	4,065	3,728	337
25	3,875	3,552	323
20	3,645	3,372	273
15	3,403	3,156	247
10	3,081	2,891	190
5	2,665	2,503	162
0	1,168	658	509
Percentile	UPNY-ConEd-OP		
	Unconstrained	Constrained	Δ
100	6,119	4,059	2,060
95	4,245	3,400	845
90	3,964	3,251	713
85	3,769	3,118	651
80	3,601	2,992	609
75	3,436	2,872	563
70	3,298	2,763	535
65	3,159	2,665	495
60	3,014	2,555	459
55	2,880	2,455	425
50	2,747	2,347	400
45	2,613	2,234	378
40	2,475	2,112	363
35	2,342	1,984	358
30	2,210	1,851	360
25	2,060	1,700	359
20	1,901	1,535	366
15	1,696	1,347	349
10	1,442	1,112	329
5	1,078	744	335
0	-477	-1,185	708

Percentile	DYSINGER EAST-OP		
	Unconstrained	Constrained	Δ
100	2,960	2,550	410
95	2,290	1,989	300
90	2,151	1,853	298
85	2,037	1,733	304
80	1,913	1,615	298
75	1,753	1,496	257
70	1,595	1,391	204
65	1,490	1,286	204
60	1,421	1,197	225
55	1,359	1,126	233
50	1,306	1,070	235
45	1,258	1,013	245
40	1,209	961	249
35	1,161	911	250
30	1,117	856	260
25	1,062	804	259
20	1,007	742	264
15	935	661	274
10	825	565	260
5	624	424	200
0	14	-158	172
Percentile	WEST CENTRAL-OP		
	Unconstrained	Constrained	Δ
100	2,334	1,425	909
95	1,557	1,257	300
90	1,421	1,120	301
85	1,321	1,010	311
80	1,237	928	309
75	1,163	853	310
70	1,088	786	302
65	1,015	725	291
60	946	664	282
55	880	611	269
50	810	555	256
45	749	500	249
40	687	442	245
35	621	388	234
30	546	326	220
25	478	252	226
20	391	171	220
15	284	81	202
10	143	-28	171
5	-41	-165	124
0	-949	-948	-2
Percentile	Volney East-OP		
	Unconstrained	Constrained	Δ
100	5,040	4,001	1,039
95	4,155	3,278	877
90	3,945	3,119	827
85	3,800	3,011	789
80	3,662	2,922	740
75	3,549	2,841	708
70	3,447	2,767	680
65	3,358	2,695	663
60	3,276	2,627	650
55	3,191	2,559	632
50	3,097	2,495	602
45	2,999	2,430	569
40	2,901	2,356	546
35	2,794	2,273	521
30	2,689	2,185	504
25	2,587	2,092	494
20	2,461	1,993	468
15	2,285	1,863	421
10	2,015	1,680	335
5	1,533	1,356	177
0	503	411	92
Percentile	Spr/Dunwoodie So.-OP		
	Unconstrained	Constrained	Δ
100	5,902	4,866	1,036
95	4,932	4,204	727
90	4,684	3,965	719
85	4,511	3,803	707
80	4,343	3,683	660
75	4,211	3,574	637
70	4,075	3,472	603
65	3,935	3,379	557
60	3,812	3,294	518
55	3,698	3,215	483
50	3,579	3,132	446
45	3,457	3,054	403
40	3,322	2,965	357
35	3,199	2,873	326
30	3,073	2,755	318
25	2,951	2,634	317
20	2,805	2,506	299
15	2,622	2,348	274
10	2,408	2,136	272
5	2,096	1,764	331
0	586	-375	960

Percentile	MOSES SOUTH-OP		
	Unconstrained	Constrained	Δ
100	2,639	2,237	401
95	2,111	1,848	263
90	1,917	1,680	237
85	1,782	1,632	149
80	1,699	1,598	101
75	1,625	1,536	90
70	1,510	1,445	65
65	1,363	1,336	27
60	1,260	1,239	21
55	1,160	1,110	51
50	970	951	19
45	739	808	-69
40	541	667	-126
35	369	513	-145
30	196	355	-159
25	2	208	-206
20	-163	59	-222
15	-323	-126	-196
10	-502	-341	-161
5	-703	-560	-143
0	-1,407	-1,249	-158
Percentile	CENTRAL EAST		
	Unconstrained	Constrained	Δ
100	4,012	2,800	1,212
95	3,206	2,462	744
90	3,034	2,351	683
85	2,910	2,245	664
80	2,795	2,163	631
75	2,697	2,097	600
70	2,606	2,027	579
65	2,520	1,964	555
60	2,442	1,899	544
55	2,360	1,845	516
50	2,281	1,791	490
45	2,189	1,737	453
40	2,108	1,686	422
35	2,027	1,626	401
30	1,930	1,569	361
25	1,834	1,502	332
20	1,738	1,432	305
15	1,621	1,350	271
10	1,494	1,256	238
5	1,285	1,134	151
0	674	563	111
Percentile	MILLW-SOUTH-OP		
	Unconstrained	Constrained	Δ
100	6,797	5,776	1,021
95	5,832	5,041	792
90	5,562	4,840	722
85	5,360	4,687	672
80	5,197	4,559	638
75	5,043	4,448	595
70	4,894	4,333	561
65	4,739	4,227	512
60	4,606	4,129	477
55	4,477	4,028	450
50	4,356	3,928	429
45	4,219	3,822	397
40	4,084	3,714	370
35	3,953	3,598	355
30	3,826	3,470	356
25	3,682	3,345	338
20	3,512	3,188	324
15	3,308	3,017	292
10	3,062	2,768	293
5	2,710	2,357	352
0	1,182	216	966

# **Attachment #6**

**Cost Estimates**

### Base Transmission Plan Cost Component Summary (\$M)

	Total	Replacement Plan	Incremental	Carrying Charge
Moses to Marcy	1035	842	193	48
Marcy to New Scotland	356	105	251	62
New Scotland Bus Upgrade	30	0	30	7
New Scotland to Leeds	96	0	96	24
Leeds to Pleasant Valley	195	0	195	48
Rock Tavern to Ramapo	113	0	113	28
Oakdale to Fraser	205	31	174	43
Pleasant Valley to Sprainbrook	411	0	411	102
Pleasant Valley to Ruland Road	946	0	946	235
115 kV Upgrades	514	514	0	0
<b>BTP Total</b>	<b>3900</b>	<b>1492</b>	<b>2409</b>	<b>597</b>
Sprainbrook to Ruland Road	535	0	535	133

### Cost Summary for new Projects

Voltage	Element	Substation(s)	Scope	Length (miles)		Cost (\$M/mile)			Cost (\$M)			
						Low	Mid	High	Low	Mid	High	
<b>115 kV Upgrades</b>												
115 kV	Line	Mortimer to Hook Road #1	Reconductor with 1033 ACSR	21.2	Overhead	1	1.5	2	21	32	42	
115 kV	Line	Hook Road to Elbridge #7	Reconductor with 1033 ACSR	51.0	Overhead	1	1.5	2	51	77	102	
115 kV	Line	Mortimer to Elbridge #2	Reconductor with 1033 ACSR	72.0	Overhead	1	1.5	2	72	108	144	
115 kV	Line	Geneva to Elbridge #15	Reconductor with 1033 ACSR	31.3	Overhead	1	1.5	2	31	47	63	
115 kV	Line	Lockport to Mortimer #111	Reconductor with 795 ACSR	55.7	Overhead	1	1.5	2	56	84	111	
115 kV	Line	Lockport to Mortimer #113	Reconductor with 795 ACSR	55.7	Overhead	1	1.5	2	56	84	111	
115 kV	Line	Lockport to Mortimer #114	Reconductor with 795 ACSR	55.7	Overhead	1	1.5	2	56	84	111	
<b>Remaining BTP Projects</b>												
345 kV	Line	Oakdale to Fraser	New Line (115 kV ROW)	56.9	Overhead	2	3.5	5	114	199	285	
345 kV	Line	Moses to Adirondack	New Lines (230 kV ROW)	85.9	Overhead	2	3.5	5	172	301	429	
345 kV	Line	Adirondack to EDIC	New Line (230 kV ROW)	54.0	Overhead	2	3.5	5	108	189	270	
345 kV	Line	Adirondack to Chases Lake	New Line (230 kV ROW)	11.1	Overhead	2	3.5	5	22	39	55	
345 kV	Line	Chases Lake to Marcy	New Line (230 kV ROW)	41.5	Overhead	2	3.5	5	83	145	208	
345 kV	Line	Marcy to Jordanville	New Line (230 kV ROW)	30.0	Overhead	2	3.5	5	60	105	150	
345 kV	Line	Jordanville to Princetown	New Line (230 kV ROW)	37.0	Overhead	2	3.5	5	74	130	185	
345 kV	Line	Princetown to New Scotland 99	New Line	20.0	Overhead	2	3.5	5	40	70	100	
345 kV	Line	New Scotland 77 to Leeds	New Line	26.0	Overhead	2	3.5	5	52	91	130	
345 kV	Line	Leeds to Pleasant Valley	Add Third Line	39.3	Overhead				150	190	300	
345 kV	Line	Rock Tavern to Ramapo	New Line	27.4	Overhead					76		
900 MW DC	Line	Pleasant Valley to Sprainbrook	New Line	58.2	Underground	2	5	15	116	291	873	
600 MW DC	Line	Pleasant Valley to Sprainbrook	New Line	58.2	Underground	2	5	15	116	291	873	
600 MW DC	Line	Sprainbrook to Ruland Road	New Line	10.0	Underground	5	10	15	50	100	150	
600 MW DC	Line	Sprainbrook to Ruland Road	New Line	15.0	Submarine	3	3.5	5	45	53	75	
600 MW DC	Line	Sprainbrook to Ruland Road	New Line	15.0	Submarine	3	3.5	5	45	53	75	

### Cost Summary for new Projects

Voltage	Element	Substation(s)	Scope	Length (miles)	Cost (\$M/mile)			Cost (\$M)		
					Low	Mid	High	Low	Mid	High
345 kV	Terminal	Oakdale	New Line Terminal					1	3	5
345 kV	Terminal	Fraser	New Line Terminal					1	3	5
345/230 kV	Transformer	Moses	New Transformers					3	5	7
345 kV	Substation	Adirondack	New Substation					10	15	20
345/115 kV	Transformer	Adirondack	New Transformer					3	5	7
345 kV	Terminal	EDIC	New Line Terminal					1	3	5
345/115 kV	Transformer	EDIC to Porter	New Transformer					3	5	7
345 kV	Substation	Chases Lake	New Substation					10	15	20
345/230 kV	Transformer	Chases Lake	New Transformer					3	5	7
345 kV	Terminal	Marcy	New Line Terminals					1	3	5
345 kV	Substation	Jordanville	New Substation					10	15	20
345/34.5 kV	Transformer	Jordanville	New Transformer					3	5	7
345 kV	Substation	Princetown	New Substation					10	15	20
345/230 kV	Transformer	Princetown	New Transformers					3	5	7
345 kV	Substation	New Scotland	Upgrade to Breaker and Half					20	30	40
345 kV	Terminal	New Scotland	New Line Terminals					1	3	5
345 kV	Terminal	Leeds	New Line Terminals					1	2	4
345 kV	Terminal	Pleasant Valley	New Line Terminal					1	3	5
345 kV	Terminal	Rock Tavern	New Line Terminal						19	
345 kV	Terminal	Ramapo	New Line Terminal						17.6	
Converter	Substation	Pleasant Valley	New Converter Station					100	120	200
Converter	Substation	Sprainbrook	New Converter Station					120	160	260
Converter	Substation	Ruland Road	New Converter Station					120	160	260
345/138 kV	Transformer	Ruland Road	New Transformers					3	5	7











### Cost Summary for Replacement in Kind Projects

Voltage	Element	Substation(s)	Scope	Length (miles)		Cost (\$M/mile)			Cost (\$M)		
						Low	Mid	High	Low	Mid	High
115 kV	Line	Mortimer to Hook Road #1	Replace In-Kind	21.2	Overhead	1	1.5	2	21	32	42
115 kV	Line	Hook Road to Elbridge #7	Replace In-Kind	51.0	Overhead	1	1.5	2	51	77	102
115 kV	Line	Mortimer to Elbridge #2	Replace In-Kind	72.0	Overhead	1	1.5	2	72	108	144
115 kV	Line	Geneva to Elbridge #15	Replace In-Kind	31.3	Overhead	1	1.5	2	31	47	63
115 kV	Line	Lockport to Mortimer #111	Replace In-Kind	55.7	Overhead	1	1.5	2	56	84	111
115 kV	Line	Lockport to Mortimer #113	Replace In-Kind	55.7	Overhead	1	1.5	2	56	84	111
115 kV	Line	Lockport to Mortimer #114	Replace In-Kind	55.7	Overhead	1	1.5	2	56	84	111
115 kV	Line	Kattelville to Jennison	Replace In-Kind	20.7	Overhead	1	1.5	2	21	31	41
230 kV	Lines	Moses to Adirondack	Replace In-Kind	85.9	Overhead	1.5	3	4	129	258	344
230 kV	Lines	Adirondack to Porter	Replace In-Kind	54.4	Overhead	1.5	3	4	82	163	218
230 kV	Lines	Porter to Rotterdam	Replace In-Kind	72.0	Overhead				75	105	150

### Cost Summary for Replacement in Kind Projects

Voltage	Element	Substation(s)	Scope	T0	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T12	T14	T15	T16
115 kV	Line	Mortimer to Hook Road #1	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Hook Road to Elbridge #7	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Mortimer to Elbridge #2	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Geneva to Elbridge #15	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Lockport to Mortimer #111	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Lockport to Mortimer #113	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Lockport to Mortimer #114	Replace In-Kind	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
115 kV	Line	Kattelville to Jennison	Replace In-Kind	1	1	1	1	1	1					1				
230 kV	Lines	Moses to Adirondack	Replace In-Kind	2	2	2	2		2									2
230 kV	Lines	Adirondack to Porter	Replace In-Kind	2	2	2	2		2									2
230 kV	Lines	Porter to Rotterdam	Replace In-Kind	1	1	1	1	1	1	1					1	1	1	

### Cost Summary for Replacement in Kind Projects

Mid Point Costs (\$M)

Voltage	Element	Substation(s)	T0	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T12	T14	T15	T16
115 kV	Line	Mortimer to Hook Road #1	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
115 kV	Line	Hook Road to Elbridge #7	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
115 kV	Line	Mortimer to Elbridge #2	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
115 kV	Line	Geneva to Elbridge #15	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
115 kV	Line	Lockport to Mortimer #111	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
115 kV	Line	Lockport to Mortimer #113	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
115 kV	Line	Lockport to Mortimer #114	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
115 kV	Line	Kattelville to Jennison	31	31	31	31	31	31	0	0	0	0	31	0	0	0	0
230 kV	Lines	Moses to Adirondack	515	515	515	515	0	515	0	0	0	0	0	0	0	0	515
230 kV	Lines	Adirondack to Porter	326	326	326	326	0	326	0	0	0	0	0	0	0	0	326
230 kV	Lines	Porter to Rotterdam	105	105	105	105	105	105	105	0	0	0	0	105	105	105	0

## Cost Summary

Mid Point Costs (\$M)

	T0	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T12	T14	T15	T16
Sub-total Base Transmission Plan Projects	3900	3329	3114	2543	1508	3078	1303	948	835	709	1153	1190	1094	1207	1549
Sub-total Replacement In-Kind Projects	<u>1492</u>	<u>1492</u>	<u>1492</u>	<u>1492</u>	<u>650</u>	<u>1492</u>	<u>619</u>	<u>514</u>	<u>514</u>	<u>514</u>	<u>545</u>	<u>619</u>	<u>619</u>	<u>619</u>	<u>1356</u>
Incremental Cost	2409	1838	1623	1052	858	1587	684	434	321	195	608	572	476	588	193



# **Attachment #7**

**STARS BTP Trial Results**

**STARS Base Transmission Plan Trial Results**  
Preliminary Results  
April 11, 2011

**Base Transmission Trials**

<b>BTP Trial ID</b>	<b>BTP Elements Removed</b>
T1	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> </ul>
T2	<ul style="list-style-type: none"> <li>• Pleasant Valley – Ruland Road HVDC Line</li> </ul>
T3	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> </ul>
T4	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> </ul>
T5	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• <i>Add</i> Sprainbrook-Ruland Road HVDC Line</li> </ul>
T6	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> </ul>
T7	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Marcy – Princetown – New Scotland</li> </ul>
T8	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Marcy – Princetown – New Scotland</li> <li>• Rock - Tavern Ramapo</li> </ul>
T9	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Marcy – Princetown – New Scotland</li> <li>• Rock - Tavern Ramapo</li> <li>• New Scotland - Leeds</li> </ul>
T10	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Marcy – Princetown – New Scotland</li> </ul>
T11	<ul style="list-style-type: none"> <li>• All Lines</li> <li>• Only 115kV Upgrades Remain</li> </ul>

T12	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Rock Tavern - Ramapo</li> </ul>
T13 (Same As T8)	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Rock Tavern – Ramapo</li> <li>• Marcy – Princetown – New Scotland</li> </ul>
T14	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• Rock Tavern – Ramapo</li> <li>• New Scotland - Leeds</li> </ul>
T15	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Marcy – Moses Lines</li> <li>• Oakdale – Fraser Line</li> <li>• New Scotland - Leeds</li> </ul>
T16	<ul style="list-style-type: none"> <li>• Pleasant Valley – Sprainbrook HVDC Line</li> <li>• Pleasant Valley – Ruland Road HVDC Line</li> <li>• Oakdale – Fraser Line</li> <li>• Marcy – Princetown – New Scotland</li> <li>• Rock - Tavern Ramapo</li> <li>• New Scotland – Leeds</li> <li>• Leeds – Pleasant Valley</li> </ul>

## Results Summaries

### *Base Transmission Plan Trials Cost/Benefit Analysis (Production Cost Benefits Only)*

<b>BTP Trial</b>	<b><u>Benefit</u> Annual NYISO Production Cost Savings (M\$)</b>	<b><u>Benefit</u> Annual NYISO Load LBMP Payment Savings (M\$)</b>	<b><u>Cost</u> Annual Project Carrying Charge (M\$)</b>	<b><u>B/C</u> Production Cost Benefit/Cost Ratio</b>	<b><u>B/C</u> Load LBMP Payment Benefit/Cost Ratio</b>
<b>Reference</b>	199	109	597	0.33	0.18
<b>T1</b>	197	103	456	0.43	0.23
<b>T2</b>	176	82	402	0.44	0.20
<b>T3</b>	175	77	261	0.67	0.30
<b>T4</b>	176	67	213	0.83	0.31
<b>T5</b>	192	103	394	0.49	0.26
<b>T6</b>	144	73	170	0.85	0.43
<b>T7</b>	126	58	108	1.17	0.54
<b>T8</b>	94	57	80	1.18	0.71
<b>T9</b>	75	28	48	1.56	0.58
<b>T10</b>	162	51	151	1.07	0.34
<b>T11</b>	6	0	1	6.00	0.00
<b>T12</b>	117	67	142	0.82	0.47
<b>T13</b>	94	57	67	1.40	0.85
<b>T14</b>	87	30	118	0.74	0.25
<b>T15</b>	107	35	146	0.73	0.24
<b>T16</b>	2	23	48	0.04	0.48

\*Estimated value, actual annual carrying charge for 115 kV upgrades very small

*Base Transmission Plan Trials Production Cost Savings Summary – Savings Due to BTP*

<b>Case Description</b>	<b>Production Cost Savings (M\$)</b>	<b>Import Cost Savings (M\$)</b>	<b>Emissions Cost Savings (M\$)</b>	<b>Total NYISO Production Cost Savings (M\$)</b>	<b>Load LBMP Payment Savings (M\$)</b>
<b>Reference</b>	172	14	12	199	109
<b>T1</b>	174	10	14	197	103
<b>T2</b>	143	18	15	176	82
<b>T3</b>	148	11	17	175	77
<b>T4</b>	128	38	10	176	67
<b>T5</b>	166	14	12	192	103
<b>T6</b>	119	16	10	144	73
<b>T7</b>	99	20	7	126	58
<b>T8</b>	84	5	5	94	57
<b>T9</b>	73	-4	6	75	28
<b>T10</b>	111	42	10	162	51
<b>T11</b>	4	1	0	6	0
<b>T12</b>	113	-3	8	117	67
<b>T13</b>	84	5	5	94	57
<b>T14</b>	87	-6	7	87	30
<b>T15</b>	100	0	7	107	35
<b>T16</b>	18	-17	1	2	23

*Base Transmission Plan Trials Demand Congestion Rankings*

<b>Contingent Element</b>	<b>Overloaded Element</b>	<b>RIK</b>	<b>BTP</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>T6</b>	<b>T7</b>	<b>T8</b>	<b>T9</b>	<b>T10</b>	<b>T11</b>	<b>T12</b>	<b>T13</b>	<b>T14</b>	<b>T15</b>	<b>T16</b>
ATHENS_PLTVLLEY_345	PLTVLLEY LEEDS 3	247												252					258
DUNWOODIE_SHORRD_345	DUNWDE SHOR RD	30	33	33	52	52	51	35	50	48	47	41	49	30	49	47	40	42	30
VOLNEY_SCRIBA_345	SCRIBA VOLNEY	28	23	23	22	22	24	23	27	30	29		25	28	28	29			
ASTORIAW138_HG5_138	ASTORIA W HG6		23	23	23	23	23	23	23	23	24		23		24	24			24
LEEDS3_N.SCOT99_345	LEEDS 3 N.SCOT77											47					56	48	
SBK:LEEDS_NSCT99_345	LEEDS 3 N.SCOT99											36					85	95	

*Base Transmission Plan Trials Element Utilization (Loading Percentage) Summary*

<b>From Bus</b>	<b>From Bus</b>	<b>To Bus</b>	<b>To Bus</b>	<b>REF (%)</b>	<b>T1 (%)</b>	<b>T2 (%)</b>	<b>T3 (%)</b>	<b>T4 (%)</b>	<b>T5 (%)</b>	<b>T6 (%)</b>	<b>T7 (%)</b>	<b>T8 (%)</b>	<b>T9 (%)</b>	<b>T10 (%)</b>	<b>T11 (%)</b>	<b>T12 (%)</b>	<b>T13 (%)</b>	<b>T14 (%)</b>	<b>T15 (%)</b>	<b>T16 (%)</b>
137451	LEEDS 3	126294	PLTVLLEY	43.1	43.0	42.5	42.4	42.2	42.7	42.3	40.8	41.1	39.6	41.1	0.0	42.6	41.1	40.6	40.1	0.0
999837	JORDNVLL	137728	PRINCETW	37.5	37.5	37.3	37.2	36.8	37.4	31.9	0.0	0.0	0.0	0.0	0.0	31.7	0.0	30.6	30.6	0.0
147833	MARCY T1	999837	JORDNVLL	35.2	35.1	34.9	34.9	34.4	35.0	29.5	0.0	0.0	0.0	0.0	0.0	29.3	0.0	28.2	28.2	0.0
125001	ROCK TAV	126297	RAMAPO	35.2	35.4	35.4	35.6	35.4	35.8	34.7	34.7	0.0	0.0	35.3	0.0	0.0	0.0	0.0	33.6	0.0
137452	N.SCOT77	137451	LEEDS 3	34.0	34.0	33.6	33.5	33.2	33.8	34.3	31.7	31.6	0.0	31.5	0.0	34.1	31.6	0.0	0.0	0.0
137729	PRINCETW	137730	ROTRDM.2	30.3	30.4	30.4	30.4	30.1	30.3	6.6	0.0	0.0	0.0	0.0	0.0	6.6	0.0	8.2	8.2	0.0
137729	PRINCETW	137730	ROTRDM.2	30.3	30.4	30.4	30.4	30.1	30.3	6.6	0.0	0.0	0.0	0.0	0.0	6.6	0.0	8.2	8.2	0.0
137728	PRINCETW	137453	N.SCOT99	22.7	22.7	22.4	22.4	22.0	22.6	28.6	0.0	0.0	0.0	0.0	0.0	28.5	0.0	26.5	26.5	0.0
999841	CHASES L	147833	MARCY T1	19.1	19.1	18.9	19.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6
130753	FRASR345	130755	OAKDL345	18.9	18.9	18.8	18.8	18.9	18.9	0.0	0.0	0.0	0.0	19.1	0.0	0.0	0.0	0.0	0.0	0.0
126294	PLTVLLEY	128860	RULND RD	16.6	16.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
999836	ADRON B2	137200	EDIC	15.2	15.1	15.0	15.0	0.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.8
999840	MOSES W	999836	ADRON B2	12.9	12.9	12.8	12.8	0.0	12.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.0
999835	ADRON B1	999841	CHASES L	11.8	11.8	11.7	11.7	0.0	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
999840	MOSES W	999835	ADRON B1	11.8	11.7	11.6	11.6	0.0	11.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.3
126294	PLTVLLEY	126298	SPRBROOK	4.8	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
126298	SPRBROOK	128860	RULND RD	0.0	0.0	0.0	0.0	0.0	12.3	0.0	0.0	0.0	0.0	0.0	0.0	42.6	41.1	40.6	40.1	0.0

*Base Transmission Plan Trials Import/Export Summary*

<b>BTP Trial</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
<b>Reference</b>	9,665,388	9,740,128	74,741	1,084	1,069	-14
<b>T1</b>	9,665,388	9,784,625	119,237	1,084	1,074	-10
<b>T2</b>	9,665,388	9,722,892	57,504	1,084	1,066	-18
<b>T3</b>	9,665,388	9,789,390	124,002	1,084	1,073	-11
<b>T4</b>	9,665,388	9,577,991	-87,397	1,084	1,046	-38
<b>T5</b>	9,665,388	9,744,422	79,034	1,084	1,070	-14
<b>T6</b>	9,665,388	9,786,416	121,028	1,084	1,068	-16
<b>T7</b>	9,665,388	9,710,443	45,055	1,084	1,064	-20
<b>T8</b>	9,665,388	9,781,353	115,965	1,084	1,079	-5
<b>T9</b>	9,665,388	9,811,976	146,588	1,084	1,088	4
<b>T10</b>	9,665,388	9,512,234	-153,154	1,084	1,042	-42
<b>T11</b>	9,665,388	9,661,581	-3,807	1,084	1,083	-1
<b>T12</b>	9,665,388	9,886,234	220,846	1,084	1,087	3
<b>T13</b>	9,665,388	9,781,353	115,965	1,084	1,079	-5
<b>T14</b>	9,665,388	9,838,758	173,370	1,084	1,090	6
<b>T15</b>	9,665,388	9,789,202	123,814	1,084	1,084	0
<b>T16</b>	9,665,388	9,800,199	134,811	1,084	1,101	17



*Regional Load LBMP Payment Savings Results Summary*

<b>Area/Region</b>	<b>REF</b>	<b>T1</b>	<b>T2</b>	<b>T3</b>	<b>T4</b>	<b>T5</b>	<b>T6</b>	<b>T7</b>	<b>T8</b>	<b>T9</b>	<b>T10</b>	<b>T11</b>	<b>T12</b>	<b>T13</b>	<b>T14</b>	<b>T15</b>	<b>T16</b>
West	18	19	19	19	20	18	18	15	14	14	18	7	17	14	15	15	7
Genessee	12	12	12	12	14	12	13	9	8	6	11	(2)	11	8	7	8	(5)
Central	17	17	17	17	19	17	16	12	10	7	17	(4)	14	10	10	11	(7)
North	14	14	14	14	7	13	8	6	5	4	6	(0)	7	5	5	5	5
Mohawk Valley	14	14	14	14	12	14	13	12	10	9	13	2	11	10	8	9	3
Capital	14	14	13	13	16	13	13	20	18	10	20	(2)	12	18	2	3	(4)
Hudson Valley	(17)	(17)	(19)	(19)	(17)	(17)	(15)	(13)	(10)	(6)	(14)	(1)	(12)	(10)	(5)	(6)	(3)
Millwood	(7)	(7)	(8)	(8)	(7)	(7)	(7)	(6)	(6)	(4)	(6)	(0)	(7)	(6)	(4)	(4)	(1)
Dunwoodie	(14)	(14)	(15)	(14)	(13)	(14)	(13)	(12)	(11)	(7)	(12)	(0)	(13)	(11)	(7)	(7)	(1)
NYCity	(108)	(105)	(102)	(101)	(94)	(105)	(95)	(82)	(77)	(49)	(83)	0	(88)	(77)	(48)	(57)	(11)
Long Island	(51)	(51)	(26)	(25)	(23)	(47)	(23)	(19)	(18)	(11)	(20)	(1)	(21)	(18)	(12)	(13)	(4)
<b>NYISO Total</b>	<b>(109)</b>	<b>(103)</b>	<b>(82)</b>	<b>(77)</b>	<b>(67)</b>	<b>(103)</b>	<b>(73)</b>	<b>(58)</b>	<b>(57)</b>	<b>(28)</b>	<b>(51)</b>	<b>(0)</b>	<b>(67)</b>	<b>(57)</b>	<b>(30)</b>	<b>(35)</b>	<b>(23)</b>
<b>HQ Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>IESO Total</b>	<b>40</b>	<b>48</b>	<b>44</b>	<b>43</b>	<b>27</b>	<b>41</b>	<b>22</b>	<b>18</b>	<b>14</b>	<b>11</b>	<b>25</b>	<b>2</b>	<b>19</b>	<b>14</b>	<b>19</b>	<b>19</b>	<b>12</b>
<b>PJM Total</b>	<b>(54)</b>	<b>(51)</b>	<b>(54)</b>	<b>(53)</b>	<b>(44)</b>	<b>(54)</b>	<b>(57)</b>	<b>(51)</b>	<b>(31)</b>	<b>(6)</b>	<b>(39)</b>	<b>(4)</b>	<b>(35)</b>	<b>(31)</b>	<b>(5)</b>	<b>(16)</b>	<b>(30)</b>
<b>ISO-NE Total</b>	<b>(32)</b>	<b>(32)</b>	<b>(33)</b>	<b>(33)</b>	<b>(28)</b>	<b>(33)</b>	<b>(32)</b>	<b>(16)</b>	<b>(22)</b>	<b>(19)</b>	<b>(21)</b>	<b>(2)</b>	<b>(37)</b>	<b>(22)</b>	<b>(35)</b>	<b>(29)</b>	<b>(6)</b>

## Individual Trial Results

### Reference Case Data

#### *Reference Case Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,823	1,069	2,439	11,332	22,917
Base Transmission Plan Savings	172	14	12	199	109

#### *Reference Case BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	43.1
999837	JORDNVLL	137728	PRINCETW	37.5
147833	MARCY T1	999837	JORDNVLL	35.2
125001	ROCK TAV	126297	RAMAPO	35.2
137452	N.SCOT77	137451	LEEDS 3	34.0
137729	PRINCETW	137730	ROTRDM.2	30.3
137729	PRINCETW	137730	ROTRDM.2	30.3
137728	PRINCETW	137453	N.SCOT99	22.7
999841	CHASES L	147833	MARCY T1	19.1
130753	FRASR345	130755	OAKDL345	18.9
126294	PLTVLLEY	128860	RULND RD	16.6
999836	ADRON B2	137200	EDIC	15.2
999840	MOSES W	999836	ADRON B2	12.9
999835	ADRON B1	999841	CHASES L	11.8
999840	MOSES W	999835	ADRON B1	11.8
126294	PLTVLLEY	126298	SPRBROOK	4.8

*Reference Case Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-437,004	510,857	-90	-42	48
Neptune	3,230,650	3,064,617	-166,034	372	350	-22
HQ	4,110,265	5,214,219	1,103,953	455	588	134
CSC	861,862	805,611	-56,250	93	87	-6
PJM	876,484	-220,716	-1,097,200	62	-75	-137
ISO-NE	1,533,988	1,313,402	-220,586	191	161	-30
<b>Total</b>	<b>9,665,388</b>	<b>9,740,128</b>	<b>74,741</b>	<b>1,084</b>	<b>1,069</b>	<b>-14</b>

*Reference Case Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	18	31	285
Genessee	12	4	31
Central	17	48	438
North	14	22	221
Mohawk Valley	14	5	36
Capital	14	39	333
Hudson Valley	(17)	(29)	(182)
Millwood	(7)	(0)	(0)
Dunwoodie	(14)	(2)	(16)
NYCity	(108)	(178)	(1,149)
Long Island	(51)	(125)	(828)
<b>NYISO Total</b>	<b>(109)</b>	<b>(185)</b>	<b>(831)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>1,104</b>
<b>IESO Total</b>	<b>40</b>	<b>20</b>	<b>183</b>
<b>PJM Total</b>	<b>(54)</b>	<b>(46)</b>	<b>(296)</b>
<b>ISO-NE Total</b>	<b>(32)</b>	<b>(35)</b>	<b>(299)</b>

Trial 1 (T1) Data

*T1 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,822	1,074	2,437	11,333	22,923
Base Transmission Plan Savings	174	10	14	197	103

*T1 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	43.0
999837	JORDNVLL	137728	PRINCETW	37.5
147833	MARCY T1	999837	JORDNVLL	35.1
125001	ROCK TAV	126297	RAMAPO	35.4
137452	N.SCOT77	137451	LEEDS 3	34.0
137729	PRINCETW	137730	ROTRDM.2	30.4
137729	PRINCETW	137730	ROTRDM.2	30.4
137728	PRINCETW	137453	N.SCOT99	22.7
999841	CHASES L	147833	MARCY T1	19.1
130753	FRASR345	130755	OAKDL345	18.9
126294	PLTVLLEY	128860	RULND RD	16.6
999836	ADRON B2	137200	EDIC	15.1
999840	MOSES W	999836	ADRON B2	12.9
999835	ADRON B1	999841	CHASES L	11.8
999840	MOSES W	999835	ADRON B1	11.7
126294	PLTVLLEY	126298	SPRBROOK	0.0

*TI Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-416,856	531,005	-90	-40	50
Neptune	3,230,650	3,070,278	-160,372	372	350	-22
HQ	4,110,265	5,218,850	1,108,584	455	589	134
CSC	861,862	806,735	-55,127	93	87	-6
PJM	876,484	-203,806	-1,080,289	62	-73	-135
ISO-NE	1,533,988	1,309,424	-224,564	191	160	-31
<b>Total</b>	<b>9,665,388</b>	<b>9,784,625</b>	<b>119,237</b>	<b>1,084</b>	<b>1,074</b>	<b>-10</b>

*TI Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	19	26	235
Genessee	12	4	27
Central	17	49	450
North	14	22	220
Mohawk Valley	14	5	35
Capital	14	40	337
Hudson Valley	(17)	(29)	(185)
Millwood	(7)	(0)	(0)
Dunwoodie	(14)	(2)	(16)
NYCity	(105)	(180)	(1,160)
Long Island	(51)	(122)	(802)
<b>NYISO Total</b>	<b>(103)</b>	<b>(188)</b>	<b>(859)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>1,109</b>
<b>IESO Total</b>	<b>48</b>	<b>21</b>	<b>192</b>
<b>PJM Total</b>	<b>(51)</b>	<b>(43)</b>	<b>(276)</b>
<b>ISO-NE Total</b>	<b>(32)</b>	<b>(35)</b>	<b>(302)</b>

Trial 2 (T2) Data

*T2 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,852	1,066	2,436	11,355	22,944
Base Transmission Plan Savings	143	18	15	176	82

*T2 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.5
999837	JORDNVLL	137728	PRINCETW	37.3
147833	MARCY T1	999837	JORDNVLL	34.9
125001	ROCK TAV	126297	RAMAPO	35.4
137452	N.SCOT77	137451	LEEDS 3	33.6
137729	PRINCETW	137730	ROTRDM.2	30.4
137729	PRINCETW	137730	ROTRDM.2	30.4
137728	PRINCETW	137453	N.SCOT99	22.4
999841	CHASES L	147833	MARCY T1	18.9
130753	FRASR345	130755	OAKDL345	18.8
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	15.0
999840	MOSES W	999836	ADRON B2	12.8
999835	ADRON B1	999841	CHASES L	11.7
999840	MOSES W	999835	ADRON B1	11.6
126294	PLTVLLEY	126298	SPRBROOK	4.8

*T2 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-422,675	525,186	-90	-41	49
Neptune	3,230,650	3,129,567	-101,083	372	358	-14
HQ	4,110,265	5,200,515	1,090,250	455	587	132
CSC	861,862	855,306	-6,556	93	93	-1
PJM	876,484	-294,673	-1,171,157	62	-84	-146
ISO-NE	1,533,988	1,254,851	-279,137	191	154	-38
<b>Total</b>	<b>9,665,388</b>	<b>9,722,892</b>	<b>57,504</b>	<b>1,084</b>	<b>1,066</b>	<b>-18</b>

*T2 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	19	25	233
Genessee	12	3	25
Central	17	28	251
North	14	17	168
Mohawk Valley	14	3	27
Capital	13	23	193
Hudson Valley	(19)	(35)	(224)
Millwood	(8)	(0)	(0)
Dunwoodie	(15)	(2)	(16)
NYCity	(102)	(173)	(1,176)
Long Island	(26)	(49)	(331)
<b>NYISO Total</b>	<b>(82)</b>	<b>(158)</b>	<b>(850)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>1,090</b>
<b>IESO Total</b>	<b>44</b>	<b>19</b>	<b>179</b>
<b>PJM Total</b>	<b>(54)</b>	<b>(38)</b>	<b>(270)</b>
<b>ISO-NE Total</b>	<b>(33)</b>	<b>(36)</b>	<b>(313)</b>

Trial 3 (T3) Data

*T3 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,848	1,073	2,434	11,355	22,949
Base Transmission Plan Savings	148	11	17	175	77

*T3 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.4
999837	JORDNVLL	137728	PRINCETW	37.2
147833	MARCY T1	999837	JORDNVLL	34.9
125001	ROCK TAV	126297	RAMAPO	35.6
137452	N.SCOT77	137451	LEEDS 3	33.5
137729	PRINCETW	137730	ROTRDM.2	30.4
137729	PRINCETW	137730	ROTRDM.2	30.4
137728	PRINCETW	137453	N.SCOT99	22.4
999841	CHASES L	147833	MARCY T1	19.0
130753	FRASR345	130755	OAKDL345	18.8
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	15.0
999840	MOSES W	999836	ADRON B2	12.8
999835	ADRON B1	999841	CHASES L	11.7
999840	MOSES W	999835	ADRON B1	11.6
126294	PLTVLLEY	126298	SPRBROOK	0.0



*T3 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-416,727	531,134	-90	-40	50
Neptune	3,230,650	3,137,602	-93,048	372	359	-14
HQ	4,110,265	5,220,661	1,110,395	455	589	134
CSC	861,862	857,358	-4,504	93	93	0
PJM	876,484	-267,706	-1,144,190	62	-81	-143
ISO-NE	1,533,988	1,258,203	-275,785	191	154	-37
<b>Total</b>	<b>9,665,388</b>	<b>9,789,390</b>	<b>124,002</b>	<b>1,084</b>	<b>1,073</b>	<b>-11</b>

*T3 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	19	24	224
Genessee	12	3	23
Central	17	25	220
North	14	17	169
Mohawk Valley	14	4	30
Capital	13	23	192
Hudson Valley	(19)	(34)	(220)
Millwood	(8)	(0)	(0)
Dunwoodie	(14)	(2)	(16)
NYCity	(101)	(175)	(1,188)
Long Island	(25)	(49)	(334)
<b>NYISO Total</b>	<b>(77)</b>	<b>(165)</b>	<b>(901)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>1,110</b>
<b>IESO Total</b>	<b>43</b>	<b>20</b>	<b>186</b>
<b>PJM Total</b>	<b>(53)</b>	<b>(36)</b>	<b>(249)</b>
<b>ISO-NE Total</b>	<b>(33)</b>	<b>(36)</b>	<b>(307)</b>

Trial 4 (T4) Data

*T4 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,868	1,046	2,441	11,355	22,959
Base Transmission Plan Savings	128	38	10	176	67

*T4 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.2
999837	JORDNVLL	137728	PRINCETW	36.8
147833	MARCY T1	999837	JORDNVLL	34.4
125001	ROCK TAV	126297	RAMAPO	35.4
137452	N.SCOT77	137451	LEEDS 3	33.2
137729	PRINCETW	137730	ROTRDM.2	30.1
137729	PRINCETW	137730	ROTRDM.2	30.1
137728	PRINCETW	137453	N.SCOT99	22.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	18.9
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T4 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-460,225	487,635	-90	-44	46
Neptune	3,230,650	3,132,198	-98,452	372	358	-14
HQ	4,110,265	4,928,021	817,756	455	551	97
CSC	861,862	857,011	-4,851	93	93	0
PJM	876,484	-208,220	-1,084,704	62	-74	-137
ISO-NE	1,533,988	1,329,206	-204,782	191	163	-29
<b>Total</b>	<b>9,665,388</b>	<b>9,577,991</b>	<b>-87,397</b>	<b>1,084</b>	<b>1,046</b>	<b>-38</b>

*T4 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	20	23	216
Genessee	14	2	16
Central	19	38	344
North	7	9	89
Mohawk Valley	12	3	25
Capital	16	25	210
Hudson Valley	(17)	(34)	(217)
Millwood	(7)	(0)	(0)
Dunwoodie	(13)	(2)	(16)
NYCity	(94)	(159)	(1,072)
Long Island	(23)	(44)	(291)
<b>NYISO Total</b>	<b>(67)</b>	<b>(138)</b>	<b>(696)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>818</b>
<b>IESO Total</b>	<b>27</b>	<b>15</b>	<b>137</b>
<b>PJM Total</b>	<b>(44)</b>	<b>(31)</b>	<b>(206)</b>
<b>ISO-NE Total</b>	<b>(28)</b>	<b>(27)</b>	<b>(235)</b>

Trial 5 (T5) Data

*T5 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,829	1,070	2,440	11,339	22,923
Base Transmission Plan Savings	166	14	12	192	103

*T5 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.7
999837	JORDNVLL	137728	PRINCETW	37.4
147833	MARCY T1	999837	JORDNVLL	35.0
125001	ROCK TAV	126297	RAMAPO	35.8
137452	N.SCOT77	137451	LEEDS 3	33.8
137729	PRINCETW	137730	ROTRDM.2	30.3
137729	PRINCETW	137730	ROTRDM.2	30.3
137728	PRINCETW	137453	N.SCOT99	22.6
999841	CHASES L	147833	MARCY T1	19.1
130753	FRASR345	130755	OAKDL345	18.9
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	15.1
999840	MOSES W	999836	ADRON B2	12.9
999835	ADRON B1	999841	CHASES L	11.8
999840	MOSES W	999835	ADRON B1	11.7
126294	PLTVLLEY	126298	SPRBROOK	0.0
126298	SPRBROOK	128860	RULND RD	12.3

*T5 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-442,306	505,554	-90	-43	47
Neptune	3,230,650	3,085,106	-145,544	372	352	-20
HQ	4,110,265	5,193,259	1,082,993	455	586	131
CSC	861,862	817,668	-44,194	93	88	-5
PJM	876,484	-203,294	-1,079,778	62	-73	-135
ISO-NE	1,533,988	1,293,990	-239,998	191	158	-33
<b>Total</b>	<b>9,665,388</b>	<b>9,744,422</b>	<b>79,034</b>	<b>1,084</b>	<b>1,070</b>	<b>-14</b>

*T5 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	18	30	271
Genessee	12	4	27
Central	17	47	425
North	13	22	214
Mohawk Valley	14	5	36
Capital	13	39	325
Hudson Valley	(17)	(30)	(189)
Millwood	(7)	(0)	(0)
Dunwoodie	(14)	(3)	(24)
NYCity	(105)	(178)	(1,153)
Long Island	(47)	(112)	(736)
<b>NYISO Total</b>	<b>(103)</b>	<b>(178)</b>	<b>(804)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>1,083</b>
<b>IESO Total</b>	<b>41</b>	<b>20</b>	<b>181</b>
<b>PJM Total</b>	<b>(54)</b>	<b>(45)</b>	<b>(282)</b>
<b>ISO-NE Total</b>	<b>(33)</b>	<b>(35)</b>	<b>(305)</b>

Trial 6 (T6) Data

*T6 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,877	1,068	2,442	11,387	22,953
Base Transmission Plan Savings	119	16	10	144	73

*T6 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.3
999837	JORDNVLL	137728	PRINCETW	31.9
147833	MARCY T1	999837	JORDNVLL	29.5
125001	ROCK TAV	126297	RAMAPO	34.7
137452	N.SCOT77	137451	LEEDS 3	34.3
137729	PRINCETW	137730	ROTRDM.2	6.6
137729	PRINCETW	137730	ROTRDM.2	6.6
137728	PRINCETW	137453	N.SCOT99	28.6
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T6 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-438,172	509,688	-90	-42	48
Neptune	3,230,650	3,137,407	-93,243	372	359	-14
HQ	4,110,265	4,988,164	877,898	455	558	103
CSC	861,862	861,268	-594	93	93	0
PJM	876,484	-97,335	-973,818	62	-62	-125
ISO-NE	1,533,988	1,335,085	-198,903	191	163	-28
<b>Total</b>	<b>9,665,388</b>	<b>9,786,416</b>	<b>121,028</b>	<b>1,084</b>	<b>1,068</b>	<b>-16</b>

*T6 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	18	23	206
Genessee	13	3	19
Central	16	38	362
North	8	10	100
Mohawk Valley	13	3	23
Capital	13	25	214
Hudson Valley	(15)	(33)	(210)
Millwood	(7)	(0)	(0)
Dunwoodie	(13)	(1)	(8)
NYCity	(95)	(155)	(1,040)
Long Island	(23)	(41)	(271)
<b>NYISO Total</b>	<b>(73)</b>	<b>(128)</b>	<b>(604)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>878</b>
<b>IESO Total</b>	<b>22</b>	<b>16</b>	<b>144</b>
<b>PJM Total</b>	<b>(57)</b>	<b>(46)</b>	<b>(360)</b>
<b>ISO-NE Total</b>	<b>(32)</b>	<b>(27)</b>	<b>(234)</b>

Trial 7 (T7) Data

*T7 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,897	1,064	2,444	11,405	22,968
Base Transmission Plan Savings	99	20	7	126	58

*T7 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	40.8
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	34.7
137452	N.SCOT77	137451	LEEDS 3	31.7
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0



*T7 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-530,688	417,173	-90	-51	39
Neptune	3,230,650	3,163,047	-67,603	372	362	-10
HQ	4,110,265	4,644,154	533,889	455	519	65
CSC	861,862	867,051	5,189	93	94	1
PJM	876,484	55,416	-821,067	62	-45	-107
ISO-NE	1,533,988	1,511,463	-22,525	191	185	-7
<b>Total</b>	<b>9,665,388</b>	<b>9,710,443</b>	<b>45,055</b>	<b>1,084</b>	<b>1,064</b>	<b>-20</b>

*T7 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	15	16	162
Genessee	9	3	19
Central	12	25	232
North	6	7	72
Mohawk Valley	12	3	24
Capital	20	45	384
Hudson Valley	(13)	(32)	(200)
Millwood	(6)	(0)	(0)
Dunwoodie	(12)	(2)	(17)
NYCity	(82)	(135)	(861)
Long Island	(19)	(36)	(233)
<b>NYISO Total</b>	<b>(58)</b>	<b>(106)</b>	<b>(417)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>534</b>
<b>IESO Total</b>	<b>18</b>	<b>12</b>	<b>104</b>
<b>PJM Total</b>	<b>(51)</b>	<b>(41)</b>	<b>(282)</b>
<b>ISO-NE Total</b>	<b>(16)</b>	<b>(6)</b>	<b>(46)</b>

Trial 8 (T8) Data

*T8 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,912	1,079	2,446	11,437	22,969
Base Transmission Plan Savings	84	5	5	94	57

*T8 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	41.1
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	31.6
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T8 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-668,154	279,707	-90	-64	26
Neptune	3,230,650	3,172,878	-57,772	372	363	-9
HQ	4,110,265	4,578,484	468,219	455	511	57
CSC	861,862	872,672	10,810	93	95	1
PJM	876,484	361,883	-514,601	62	-4	-66
ISO-NE	1,533,988	1,463,590	-70,398	191	178	-13
<b>Total</b>	<b>9,665,388</b>	<b>9,781,353</b>	<b>115,965</b>	<b>1,084</b>	<b>1,079</b>	<b>-5</b>

*T8 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	14	15	156
Genessee	8	2	19
Central	10	20	180
North	5	7	67
Mohawk Valley	10	3	21
Capital	18	46	391
Hudson Valley	(10)	(29)	(184)
Millwood	(6)	(0)	(0)
Dunwoodie	(11)	(2)	(16)
NYCity	(77)	(120)	(772)
Long Island	(18)	(30)	(192)
<b>NYISO Total</b>	<b>(57)</b>	<b>(89)</b>	<b>(330)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>468</b>
<b>IESO Total</b>	<b>14</b>	<b>10</b>	<b>94</b>
<b>PJM Total</b>	<b>(31)</b>	<b>(31)</b>	<b>(218)</b>
<b>ISO-NE Total</b>	<b>(22)</b>	<b>(11)</b>	<b>(93)</b>

Trial 9 (T9) Data

*T9 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,923	1,088	2,445	11,456	22,999
Base Transmission Plan Savings	73	-4	6	75	28

*T9 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	39.6
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T9 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-730,984	216,877	-90	-70	20
Neptune	3,230,650	3,193,127	-37,523	372	366	-6
HQ	4,110,265	4,473,672	363,406	455	498	44
CSC	861,862	873,675	11,813	93	95	2
PJM	876,484	548,528	-327,955	62	21	-41
ISO-NE	1,533,988	1,453,958	-80,030	191	178	-13
<b>Total</b>	<b>9,665,388</b>	<b>9,811,976</b>	<b>146,588</b>	<b>1,084</b>	<b>1,088</b>	<b>4</b>

*T9 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	14	9	83
Genessee	6	2	16
Central	7	16	145
North	4	5	49
Mohawk Valley	9	2	14
Capital	10	32	276
Hudson Valley	(6)	(23)	(139)
Millwood	(4)	(0)	(0)
Dunwoodie	(7)	(1)	(9)
NYCity	(49)	(96)	(601)
Long Island	(11)	(25)	(157)
<b>NYISO Total</b>	<b>(28)</b>	<b>(79)</b>	<b>(322)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>363</b>
<b>IESO Total</b>	<b>11</b>	<b>9</b>	<b>79</b>
<b>PJM Total</b>	<b>(6)</b>	<b>(19)</b>	<b>(104)</b>
<b>ISO-NE Total</b>	<b>(19)</b>	<b>(10)</b>	<b>(85)</b>

Trial 10 (T10) Data

*T10 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,885	1,042	2,442	11,368	22,975
Base Transmission Plan Savings	111	42	10	162	51

*T10 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	41.1
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	35.3
137452	N.SCOT77	137451	LEEDS 3	31.5
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	19.1
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T10 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-518,773	429,088	-90	-50	40
Neptune	3,230,650	3,151,870	-78,780	372	361	-12
HQ	4,110,265	4,642,383	532,118	455	519	65
CSC	861,862	867,826	5,964	93	94	1
PJM	876,484	-105,502	-981,985	62	-62	-125
ISO-NE	1,533,988	1,474,429	-59,559	191	180	-11
<b>Total</b>	<b>9,665,388</b>	<b>9,512,234</b>	<b>-153,154</b>	<b>1,084</b>	<b>1,042</b>	<b>-42</b>

*T10 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	18	20	159
Genessee	11	2	18
Central	17	26	233
North	6	7	76
Mohawk Valley	13	3	25
Capital	20	40	339
Hudson Valley	(14)	(33)	(210)
Millwood	(6)	(0)	(0)
Dunwoodie	(12)	(0)	(5)
NYCity	(83)	(147)	(958)
Long Island	(20)	(38)	(247)
<b>NYISO Total</b>	<b>(51)</b>	<b>(121)</b>	<b>(571)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>532</b>
<b>IESO Total</b>	<b>25</b>	<b>12</b>	<b>111</b>
<b>PJM Total</b>	<b>(39)</b>	<b>(20)</b>	<b>(111)</b>
<b>ISO-NE Total</b>	<b>(21)</b>	<b>(11)</b>	<b>(91)</b>

Trial 11 (T11) Data

*T11 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,992	1,083	2,451	11,525	23,026
Base Transmission Plan Savings	4	1	0	6	0

*T11 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	0.0
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0



*T11 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-922,384	25,477	-90	-88	2
Neptune	3,230,650	3,237,218	6,568	372	373	1
HQ	4,110,265	4,054,325	-55,940	455	448	-6
CSC	861,862	859,768	-2,094	93	93	0
PJM	876,484	913,976	37,492	62	66	4
ISO-NE	1,533,988	1,518,679	-15,309	191	189	-2
<b>Total</b>	<b>9,665,388</b>	<b>9,661,581</b>	<b>-3,807</b>	<b>1,084</b>	<b>1,083</b>	<b>-1</b>

*T11 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	7	(3)	(5)
Genessee	(2)	(0)	(1)
Central	(4)	(2)	(18)
North	(0)	(1)	(8)
Mohawk Valley	2	(0)	(0)
Capital	(2)	1	5
Hudson Valley	(1)	(1)	(4)
Millwood	(0)	(0)	(0)
Dunwoodie	(0)	(0)	(4)
NYCity	0	4	37
Long Island	(1)	(2)	(18)
<b>NYISO Total</b>	<b>(0)</b>	<b>(4)</b>	<b>(16)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>(56)</b>
<b>IESO Total</b>	<b>2</b>	<b>3</b>	<b>23</b>
<b>PJM Total</b>	<b>(4)</b>	<b>1</b>	<b>18</b>
<b>ISO-NE Total</b>	<b>(2)</b>	<b>(3)</b>	<b>(19)</b>

Trial 12 (T12) Data

*T12 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,883	1,087	2,443	11,413	22,959
Base Transmission Plan Savings	113	-3	8	117	67

*T12 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	42.6
999837	JORDNVLL	137728	PRINCETW	31.7
147833	MARCY T1	999837	JORDNVLL	29.3
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	34.1
137729	PRINCETW	137730	ROTRDM.2	6.6
137729	PRINCETW	137730	ROTRDM.2	6.6
137728	PRINCETW	137453	N.SCOT99	28.5
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T12 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-569,332	378,529	-90	-55	35
Neptune	3,230,650	3,146,540	-84,110	372	360	-12
HQ	4,110,265	4,921,339	811,073	455	550	95
CSC	861,862	868,194	6,332	93	94	1
PJM	876,484	213,303	-663,180	62	-21	-83
ISO-NE	1,533,988	1,306,190	-227,798	191	159	-32
<b>Total</b>	<b>9,665,388</b>	<b>9,886,234</b>	<b>220,846</b>	<b>1,084</b>	<b>1,087</b>	<b>3</b>

*T12 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	17	23	232
Genessee	11	2	19
Central	14	33	314
North	7	11	110
Mohawk Valley	11	3	21
Capital	12	23	196
Hudson Valley	(12)	(31)	(194)
Millwood	(7)	(0)	(0)
Dunwoodie	(13)	(1)	(8)
NYCity	(88)	(147)	(977)
Long Island	(21)	(38)	(246)
<b>NYISO Total</b>	<b>(67)</b>	<b>(120)</b>	<b>(534)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>811</b>
<b>IESO Total</b>	<b>19</b>	<b>14</b>	<b>126</b>
<b>PJM Total</b>	<b>(35)</b>	<b>(38)</b>	<b>(294)</b>
<b>ISO-NE Total</b>	<b>(37)</b>	<b>(30)</b>	<b>(254)</b>

Trial 13 (T13) Data

*T13 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,912	1,079	2,446	11,437	22,969
Base Transmission Plan Savings	84	5	5	94	57

*T13 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	41.1
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	31.6
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T13 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-668,154	279,707	-90	-64	26
Neptune	3,230,650	3,172,878	-57,772	372	363	-9
HQ	4,110,265	4,578,484	468,219	455	511	57
CSC	861,862	872,672	10,810	93	95	1
PJM	876,484	361,883	-514,601	62	-4	-66
ISO-NE	1,533,988	1,463,590	-70,398	191	178	-13
<b>Total</b>	<b>9,665,388</b>	<b>9,781,353</b>	<b>115,965</b>	<b>1,084</b>	<b>1,079</b>	<b>-5</b>

*T13 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	14	15	156
Genessee	8	2	19
Central	10	20	180
North	5	7	67
Mohawk Valley	10	3	21
Capital	18	46	391
Hudson Valley	(10)	(29)	(184)
Millwood	(6)	(0)	(0)
Dunwoodie	(11)	(2)	(16)
NYCity	(77)	(120)	(772)
Long Island	(18)	(30)	(192)
<b>NYISO Total</b>	<b>(57)</b>	<b>(89)</b>	<b>(330)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>468</b>
<b>IESO Total</b>	<b>14</b>	<b>10</b>	<b>94</b>
<b>PJM Total</b>	<b>(31)</b>	<b>(31)</b>	<b>(218)</b>
<b>ISO-NE Total</b>	<b>(22)</b>	<b>(11)</b>	<b>(93)</b>

Trial 14 (T14) Data

*T14 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,909	1,090	2,444	11,443	22,997
Base Transmission Plan Savings	87	-6	7	87	30

*T14 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	40.6
999837	JORDNVLL	137728	PRINCETW	30.6
147833	MARCY T1	999837	JORDNVLL	28.2
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	0.0
137729	PRINCETW	137730	ROTRDM.2	8.2
137729	PRINCETW	137730	ROTRDM.2	8.2
137728	PRINCETW	137453	N.SCOT99	26.5
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T14 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-686,955	260,905	-90	-66	24
Neptune	3,230,650	3,174,246	-56,404	372	364	-8
HQ	4,110,265	4,697,145	586,880	455	522	67
CSC	861,862	867,244	5,382	93	94	1
PJM	876,484	489,065	-387,418	62	16	-46
ISO-NE	1,533,988	1,298,014	-235,974	191	159	-32
<b>Total</b>	<b>9,665,388</b>	<b>9,838,758</b>	<b>173,370</b>	<b>1,084</b>	<b>1,090</b>	<b>6</b>

*T14 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	15	10	113
Genessee	7	1	7
Central	10	28	274
North	5	6	62
Mohawk Valley	8	1	8
Capital	2	6	48
Hudson Valley	(5)	(18)	(111)
Millwood	(4)	(0)	(0)
Dunwoodie	(7)	(2)	(16)
NYCity	(48)	(100)	(629)
Long Island	(12)	(27)	(169)
<b>NYISO Total</b>	<b>(30)</b>	<b>(94)</b>	<b>(412)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>587</b>
<b>IESO Total</b>	<b>19</b>	<b>10</b>	<b>97</b>
<b>PJM Total</b>	<b>(5)</b>	<b>(20)</b>	<b>(154)</b>
<b>ISO-NE Total</b>	<b>(35)</b>	<b>(30)</b>	<b>(257)</b>

Trial 15 (T15) Data

*T15 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,896	1,084	2,445	11,424	22,991
Base Transmission Plan Savings	100	0	7	107	35

*T15 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	40.1
999837	JORDNVLL	137728	PRINCETW	30.6
147833	MARCY T1	999837	JORDNVLL	28.2
125001	ROCK TAV	126297	RAMAPO	33.6
137452	N.SCOT77	137451	LEEDS 3	0.0
137729	PRINCETW	137730	ROTRDM.2	8.2
137729	PRINCETW	137730	ROTRDM.2	8.2
137728	PRINCETW	137453	N.SCOT99	26.5
999841	CHASES L	147833	MARCY T1	0.0
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	0.0
999840	MOSES W	999836	ADRON B2	0.0
999835	ADRON B1	999841	CHASES L	0.0
999840	MOSES W	999835	ADRON B1	0.0
126294	PLTVLLEY	126298	SPRBROOK	0.0



*T15 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-647,631	300,229	-90	-62	28
Neptune	3,230,650	3,166,215	-64,435	372	363	-9
HQ	4,110,265	4,734,668	624,402	455	527	72
CSC	861,862	863,546	1,684	93	94	0
PJM	876,484	361,032	-515,451	62	1	-61
ISO-NE	1,533,988	1,311,373	-222,615	191	161	-30
<b>Total</b>	<b>9,665,388</b>	<b>9,789,202</b>	<b>123,814</b>	<b>1,084</b>	<b>1,084</b>	<b>0</b>

*T15 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	15	17	177
Genessee	8	2	12
Central	11	32	307
North	5	6	64
Mohawk Valley	9	1	11
Capital	3	7	60
Hudson Valley	(6)	(22)	(131)
Millwood	(4)	(0)	(0)
Dunwoodie	(7)	(2)	(16)
NYCity	(57)	(118)	(764)
Long Island	(13)	(30)	(195)
<b>NYISO Total</b>	<b>(35)</b>	<b>(107)</b>	<b>(476)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>624</b>
<b>IESO Total</b>	<b>19</b>	<b>12</b>	<b>111</b>
<b>PJM Total</b>	<b>(16)</b>	<b>(25)</b>	<b>(193)</b>
<b>ISO-NE Total</b>	<b>(29)</b>	<b>(29)</b>	<b>(248)</b>

Trial 16 (T16) Data

*T16 Production Cost Results*

<b>STARS Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
Replacement Plan	7,996	1,084	2,451	11,531	23,026
Base Transmission Plan	7,978	1,101	2,450	11,528	23,003
Base Transmission Plan Savings	18	-17	1	2	23

*T16 BTP Line Utilization Results*

From Bus	From Bus	To Bus	To Bus	Loading Factor (%)
137451	LEEDS 3	126294	PLTVLLEY	0.0
999837	JORDNVLL	137728	PRINCETW	0.0
147833	MARCY T1	999837	JORDNVLL	0.0
125001	ROCK TAV	126297	RAMAPO	0.0
137452	N.SCOT77	137451	LEEDS 3	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137729	PRINCETW	137730	ROTRDM.2	0.0
137728	PRINCETW	137453	N.SCOT99	0.0
999841	CHASES L	147833	MARCY T1	17.6
130753	FRASR345	130755	OAKDL345	0.0
126294	PLTVLLEY	128860	RULND RD	0.0
999836	ADRON B2	137200	EDIC	13.8
999840	MOSES W	999836	ADRON B2	12.0
999835	ADRON B1	999841	CHASES L	10.3
999840	MOSES W	999835	ADRON B1	10.3
126294	PLTVLLEY	126298	SPRBROOK	0.0

*T16 Import/Export Results*

<b>External Interface</b>	<b>RIK Import Amount (MWh)</b>	<b>BTP Import Amount (MWh)</b>	<b>(BTP - RIK) Import Amount (MWh)</b>	<b>RIK Import Cost (\$M)</b>	<b>BTP Import Cost (\$M)</b>	<b>(BTP - RIK) Import Cost (\$M)</b>
IESO	-947,861	-912,019	35,842	-90	-86	3
Neptune	3,230,650	3,237,468	6,818	372	373	1
HQ	4,110,265	4,316,443	206,178	455	481	26
CSC	861,862	853,543	-8,319	93	92	-1
PJM	876,484	864,427	-12,056	62	61	-1
ISO-NE	1,533,988	1,440,337	-93,651	191	180	-12
<b>Total</b>	<b>9,665,388</b>	<b>9,800,199</b>	<b>134,811</b>	<b>1,084</b>	<b>1,101</b>	<b>17</b>

*T16 Regional Results*

<b>Delta (BTP - RIK)</b>			
<b>Region/Area</b>	<b>Load LBMP Payment (M\$)</b>	<b>Production Cost (M\$)</b>	<b>Generation (MWh)</b>
West	7	4	32
Genessee	(5)	(1)	(10)
Central	(7)	(7)	(69)
North	5	6	58
Mohawk Valley	3	(0)	(2)
Capital	(4)	(8)	(68)
Hudson Valley	(3)	(1)	(5)
Millwood	(1)	(0)	(0)
Dunwoodie	(1)	(1)	(11)
NYCity	(11)	(3)	(20)
Long Island	(4)	(8)	(62)
<b>NYISO Total</b>	<b>(23)</b>	<b>(19)</b>	<b>(157)</b>
<b>HQ Total</b>	<b>0</b>	<b>1,040</b>	<b>206</b>
<b>IESO Total</b>	<b>12</b>	<b>5</b>	<b>41</b>
<b>PJM Total</b>	<b>(30)</b>	<b>(10)</b>	<b>(78)</b>
<b>ISO-NE Total</b>	<b>(6)</b>	<b>(13)</b>	<b>(111)</b>

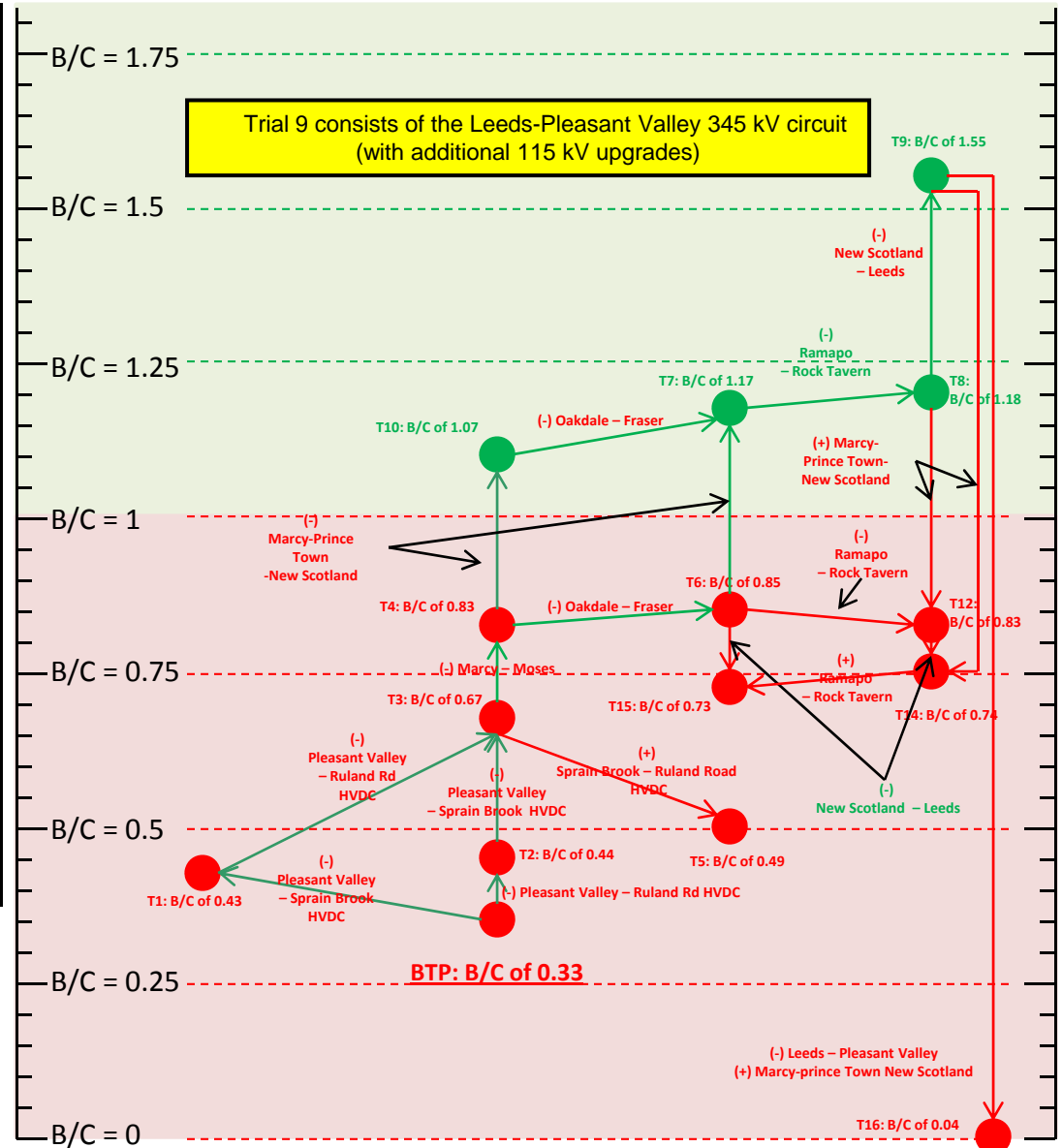
# **Attachment #8**

**STARS BTP Trial Results Graphical Representation**

# STARS Base Transmission Plan Trials Results – “Reference Case” – National Grid Cost Updates

(B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit (M\$)	Cost (M\$)	B/C Ratio (M\$)	Benefit - Cost (M\$)	Inc Benefit (M\$)	Inc Cost (M\$)	Inc B/C Ratio (M\$)
Initial (BTP)	199	597	0.33	-398	-	-	-
T1	197	456	0.43	-259	-	-	-
T2	176	402	0.44	-226	-	-	-
T3	175	261	0.67	-86	-	-	-
Incremental Marcy – Moses Benefit (T3 to T4):					-1	48	-0.02
T4	176	213	0.83	-37	-	-	-
T5	192	394	0.49	-202	-	-	-
Incremental Oakdale – Fraser Benefit (T4 to T6):					32	43	0.74
T6	144	170	0.85	-26	-	-	-
Incremental Marcy/PT/N. Scotland Benefit (T6 to T7):					18	62	0.29
T7	126	108	1.17	18	-	-	-
Incremental Ramapo – Rock Tavern Benefit (T7 to T8):					32	28	1.15
T8	94	80	1.18	14	-	-	-
Incremental New Scotland – Leeds Benefit (T8 to T9):					19	31	0.61
T9	75	48	1.55	27	-	-	-
T10	162	151	1.07	11	-	-	-
Incremental New Scotland – Leeds Benefit (T12 to T14):					30	24	1.26
T14	87	118	0.74	-31	-	-	-
T15	107	146	0.73	-39	-	-	-
T16	2	48	0.04	-46	-	-	-
Incremental Marcy/PT/N. Scotland Benefit (T4 to T10):					14	62	0.23
Incremental New Scotland - Leeds Benefit (T6 to T15):					37	24	1.55
Incremental Ramapo – Rock Tavern Benefit (T6 to T12):					27	28	0.97
Incremental Marcy/PT/N. Scotland Benefit (T8 to T12):					-23	-62	0.37
Incremental Marcy/PT/N. Scotland Benefit (T9 to T14):					-12	-70	0.17
Incremental Oakdale – Fraser Benefit (T10 to T7):					36	43	0.83
Incremental Ramapo – Rock Tavern Benefit (T14 to T15):					-20	-28	0.72



### Notes:

- Each trial is depicted as a node with red nodes denoting trials with B/C < 1, and green with B/C > 1.
- A red arrow denotes that the B/C ratio decreased implying that more benefit than cost was removed, not a good outcome. A green arrow denotes the reverse, that more cost than benefit was removed, a good outcome.

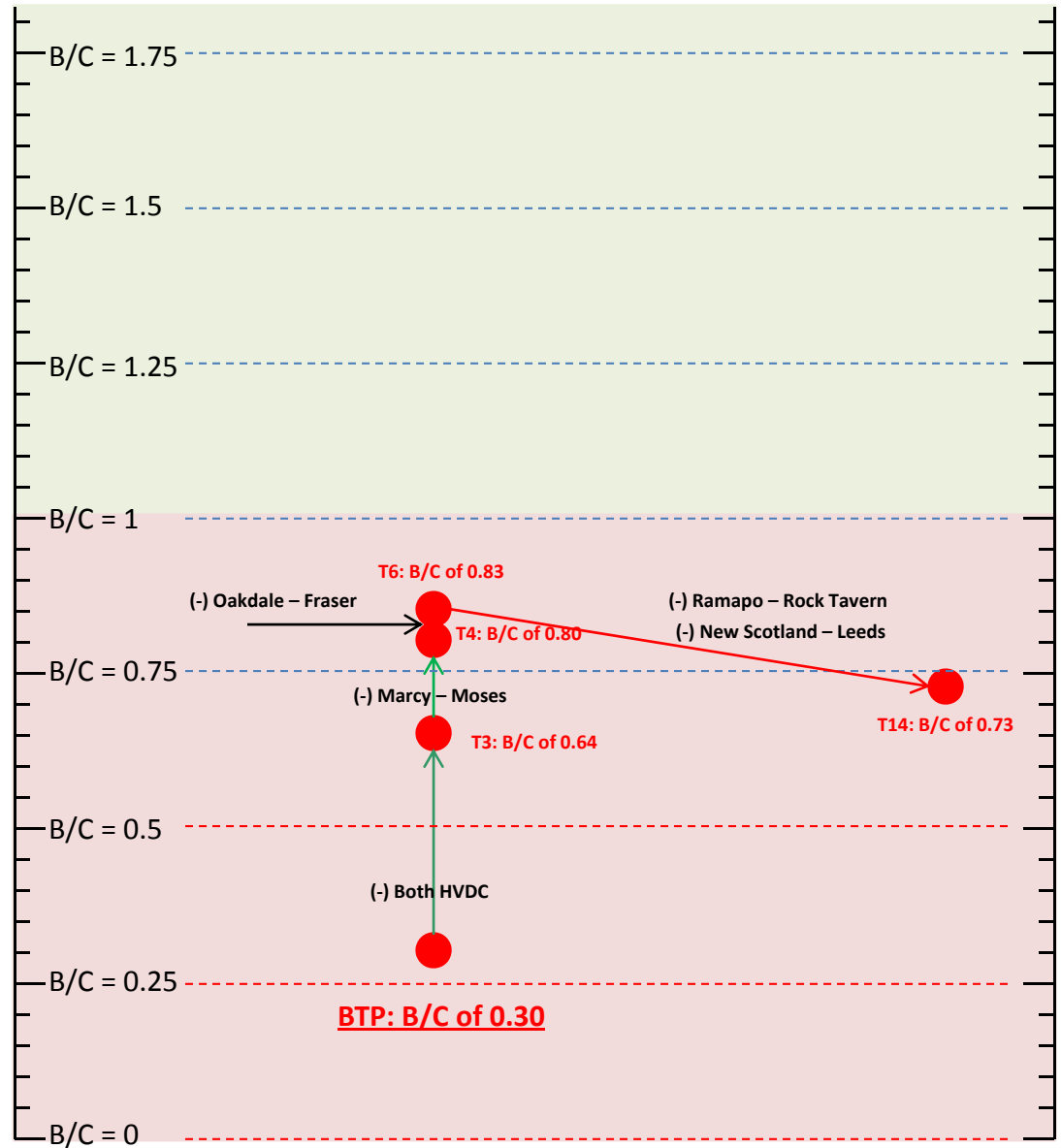
\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – “4,250 MW Wind” Scenario (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under 4,250 MW Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	180	597	0.30	199	-19
T3	167	261	0.64	175	-8
T4	170	213	0.80	176	-6
T6	141	170	0.83	144	-3
T14	86	118	0.73	87	-1

### Notes:

- Overall, the “4,250 MW Wind” scenario lowers slightly the benefits of the transmission system upgrades (all trials).
- Highlight, the BTP trial benefits drop by 10% or 19 M\$.



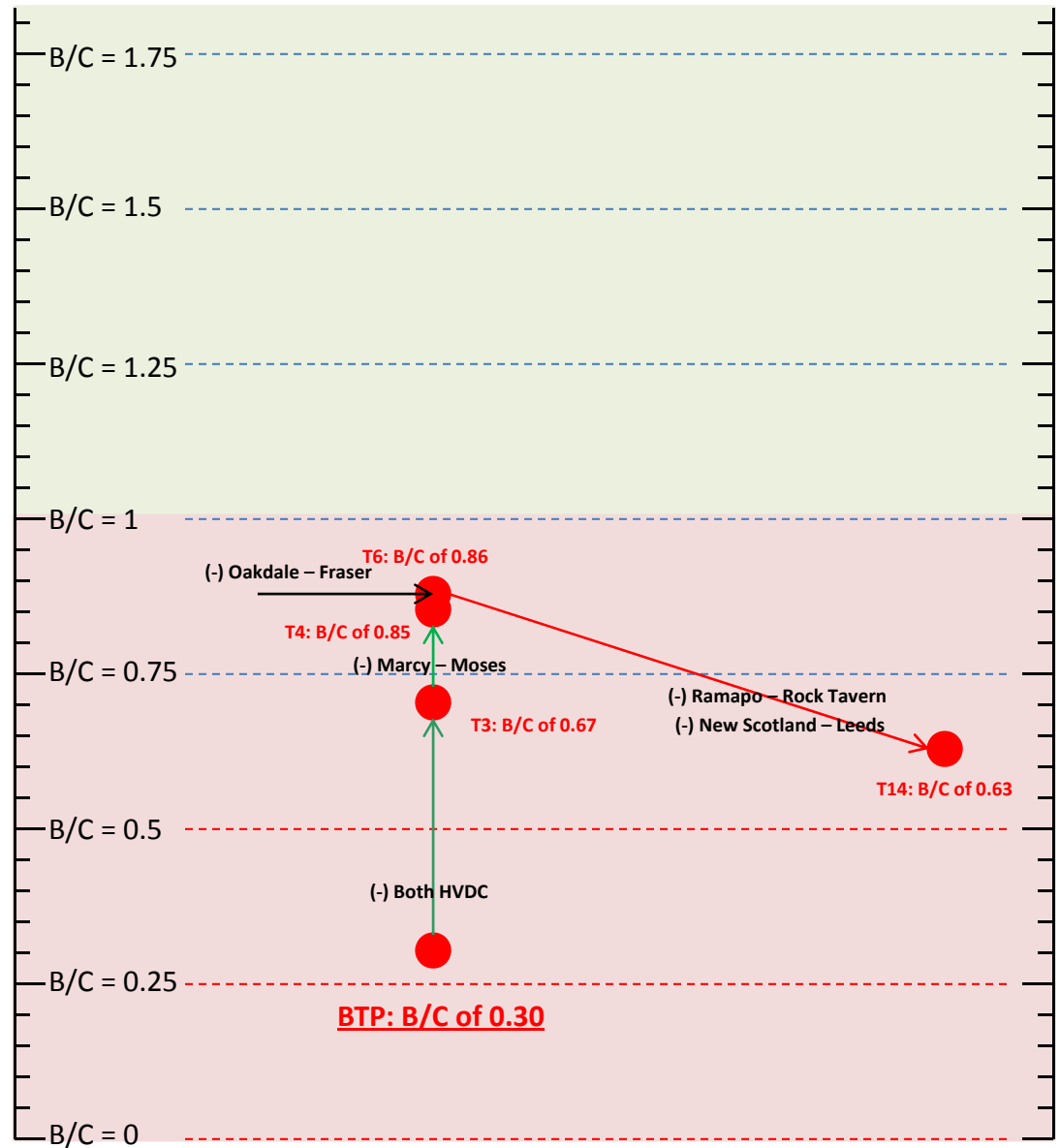
\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – “8,000 MW Wind” Scenario (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under 8,000 MW Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	181	597	0.30	199	-18
T3	175	261	0.67	175	0
T4	181	213	0.85	176	+5
T6	146	170	0.86	144	+2
T14	74	118	0.63	87	-13

### Notes:

- The “8,000 MW Wind” scenario lowers the benefits of trials Initial (BTP) and T14; but remains essentially neutral for Trials T3, T4 and T6.
- Highlight, trial 14 trial benefits drop by 15% or 13 M\$.



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

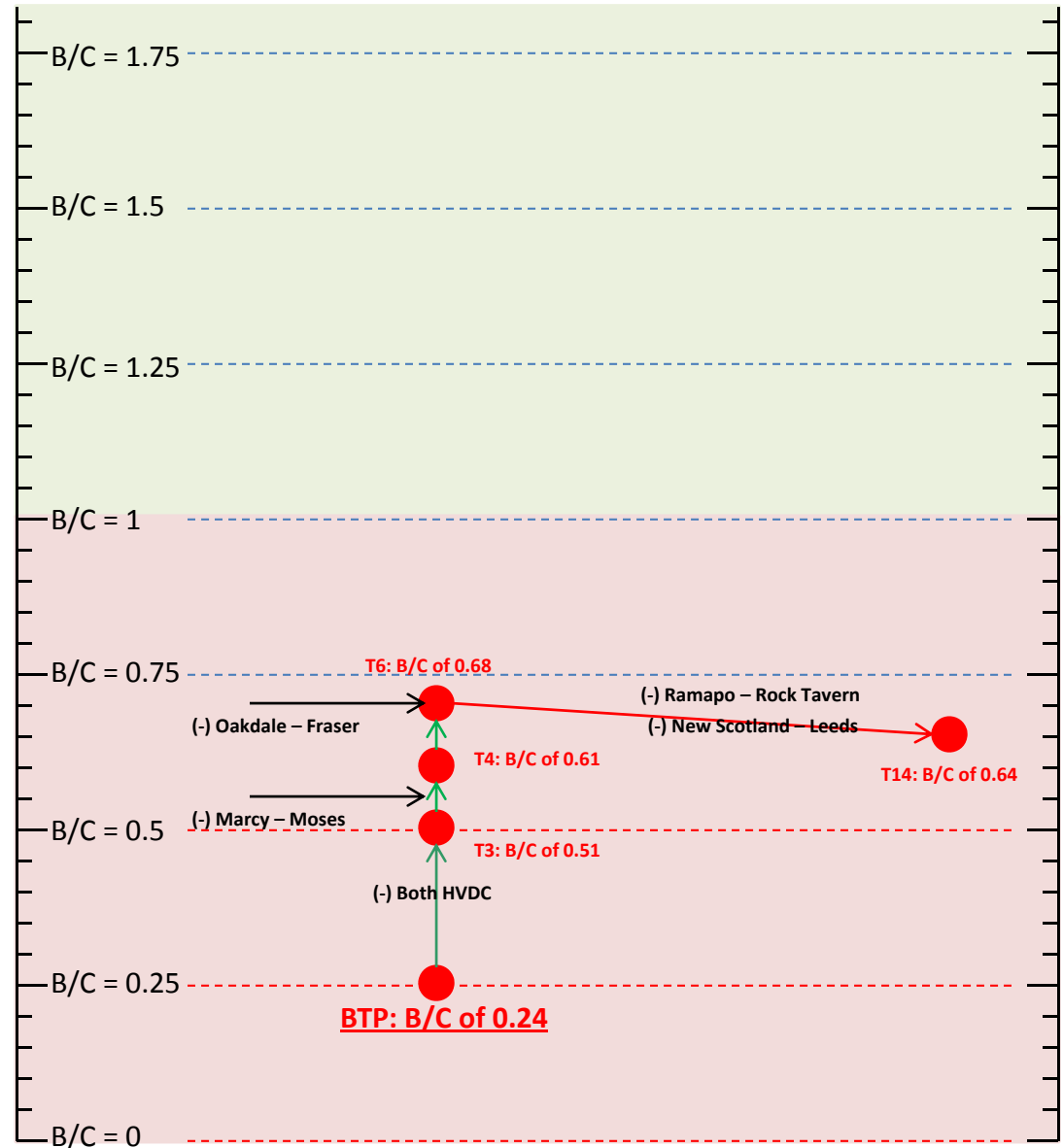
# STARS Base Transmission Plan Trials Results – “Low Cost of Fuel Forecast” Scenario

(B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under Low Cost of Fuel Forecast Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	144	597	0.24	199	-55
T3	132	261	0.51	175	-43
T4	130	213	0.61	176	-46
T6	115	170	0.68	144	-29
T14	76	118	0.64	87	-11

**Notes:**

- The “Low Cost of Fuel Forecast” scenario decreases considerably the benefits of the transmission system upgrades (all trials).



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

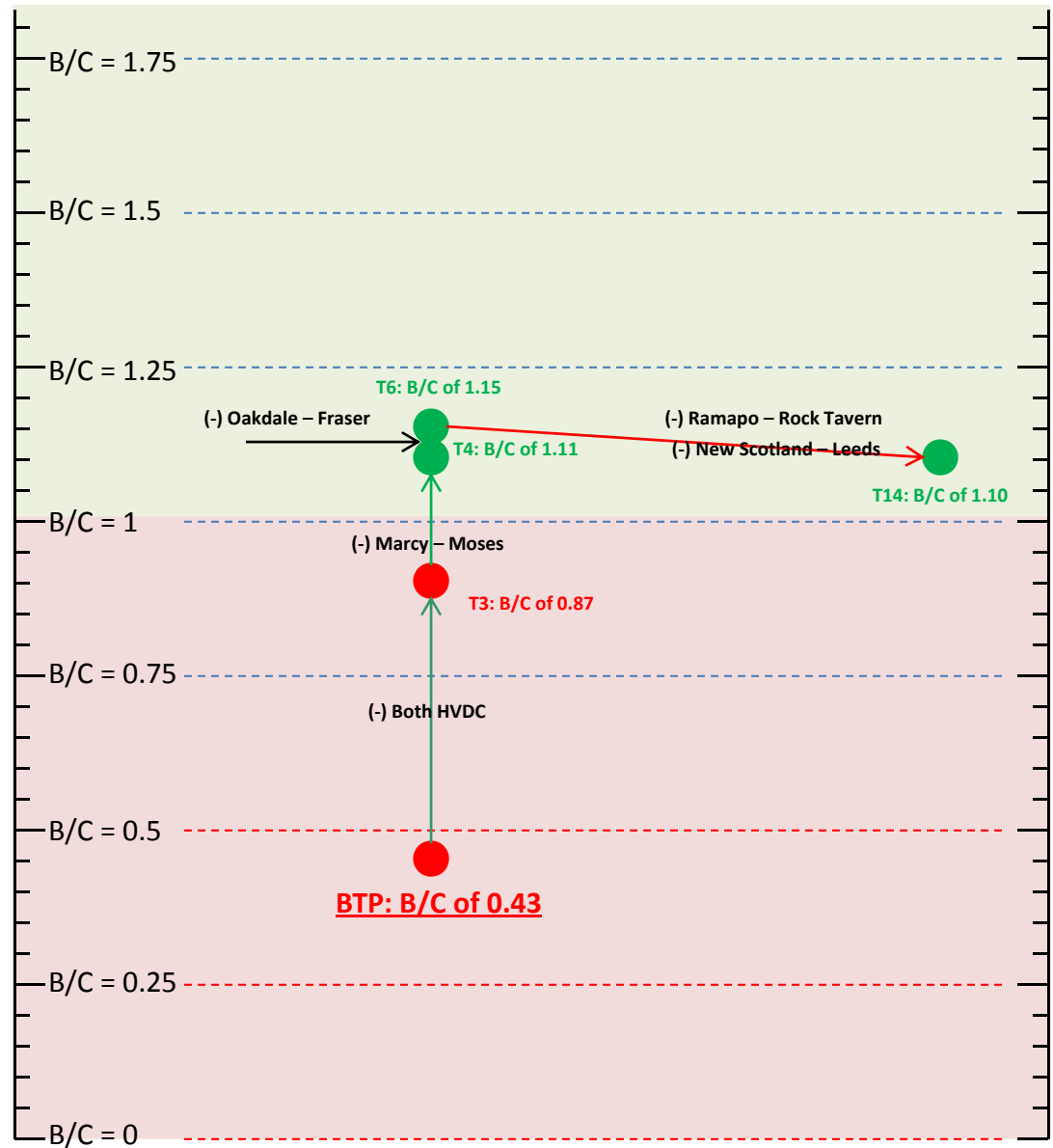


## STARS Base Transmission Plan Trials Results – “High Cost of Fuel Forecast” Scenario (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under High Cost of Fuel Forecast Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	259	597	0.43	199	+60
T3	228	261	0.87	175	+53
T4	236	213	1.11	176	+60
T6	196	170	1.15	144	+52
T14	130	118	1.10	87	+43

### Notes:

- The “High Cost of Fuel Forecast” scenario increases considerably the benefits of the transmission system upgrades (all trials).



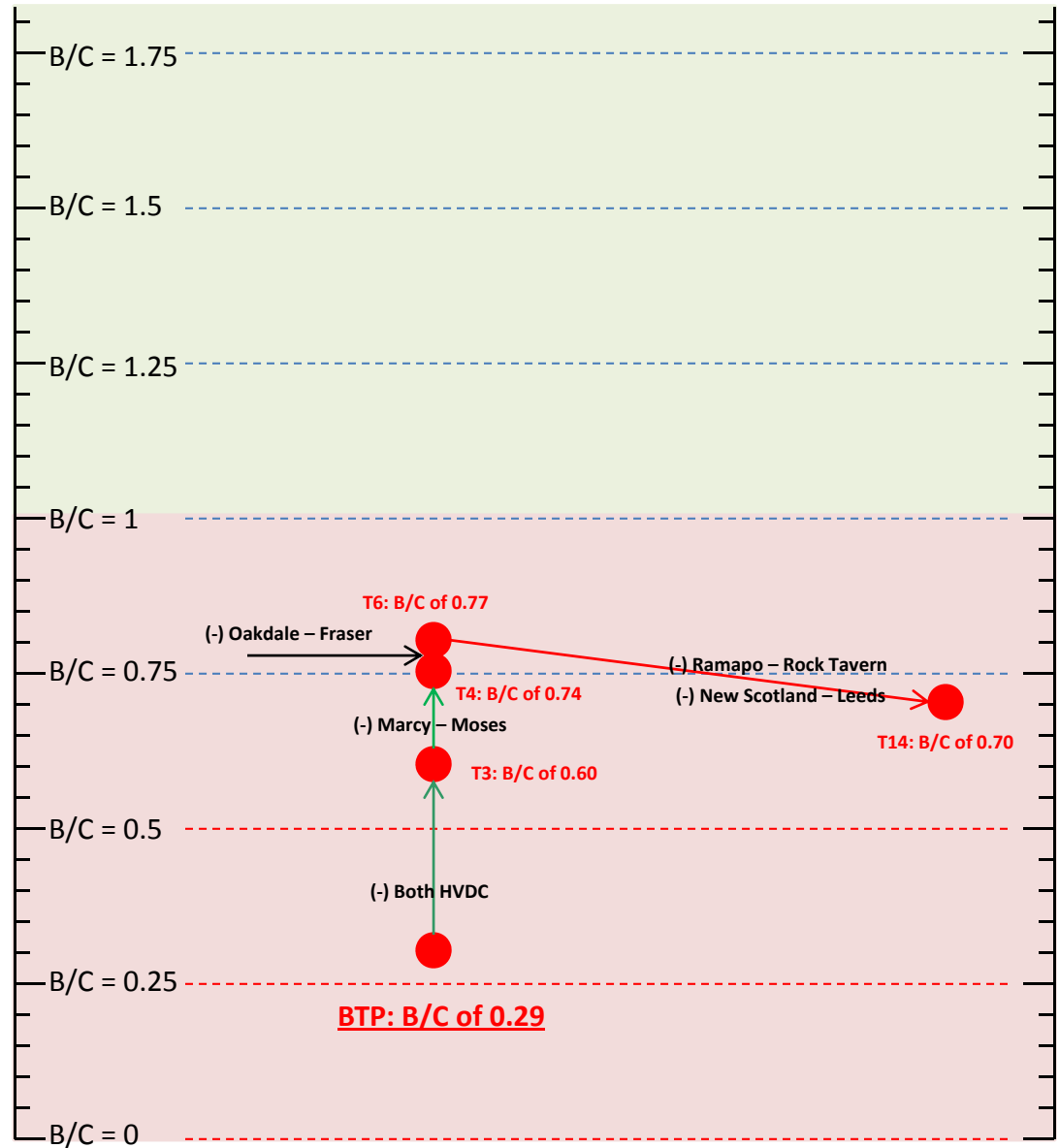
\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

# STARS Base Transmission Plan Trials Results – “Low Cost of Emissions Forecast” Scenario (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under Low Cost of Emissions Forecast Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	173	597	0.29	199	-26
T3	157	261	0.60	175	-18
T4	158	213	0.74	176	-18
T6	131	170	0.77	144	-13
T14	83	118	0.70	87	-4

## Notes:

- The “Low Cost of Emission Forecast” scenario decreases the benefits of the transmission system upgrades (all trials).
- Highlight, the BTP trial benefits drop by 13% or 26 M\$.



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

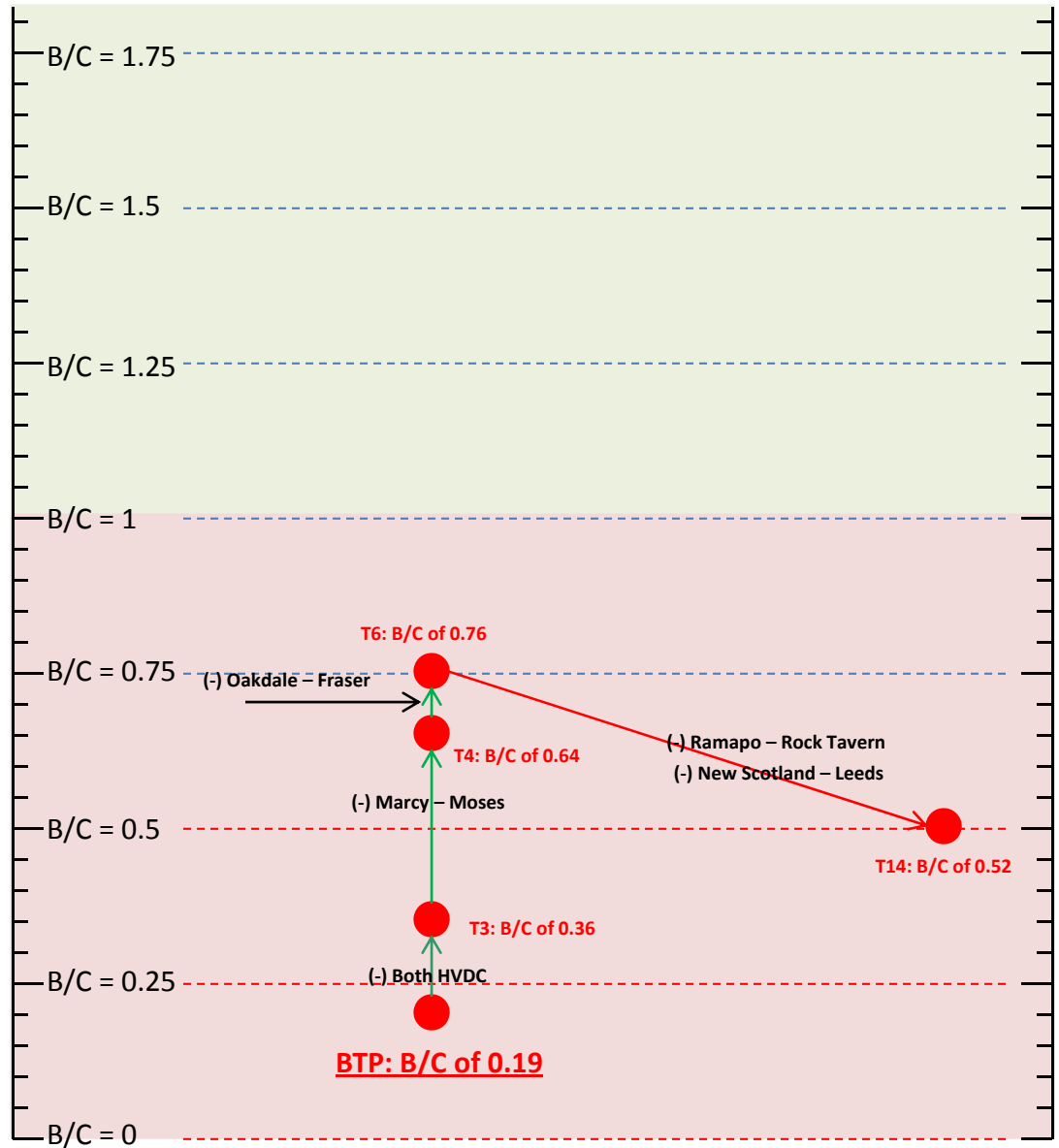
# STARS Base Transmission Plan Trials Results – “High Cost of Emissions Forecast” Scenario

(B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under High Cost of Emissions Forecast Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	113	597	0.19	199	-86
T3	95	261	0.36	175	-80
T4	136	213	0.64	176	-40
T6	129	170	0.76	144	-15
T14	61	118	0.52	87	-26

**Notes:**

- The “High Cost of Emission Forecast” scenario decreases considerably the benefits of the transmission system upgrades (all trials).



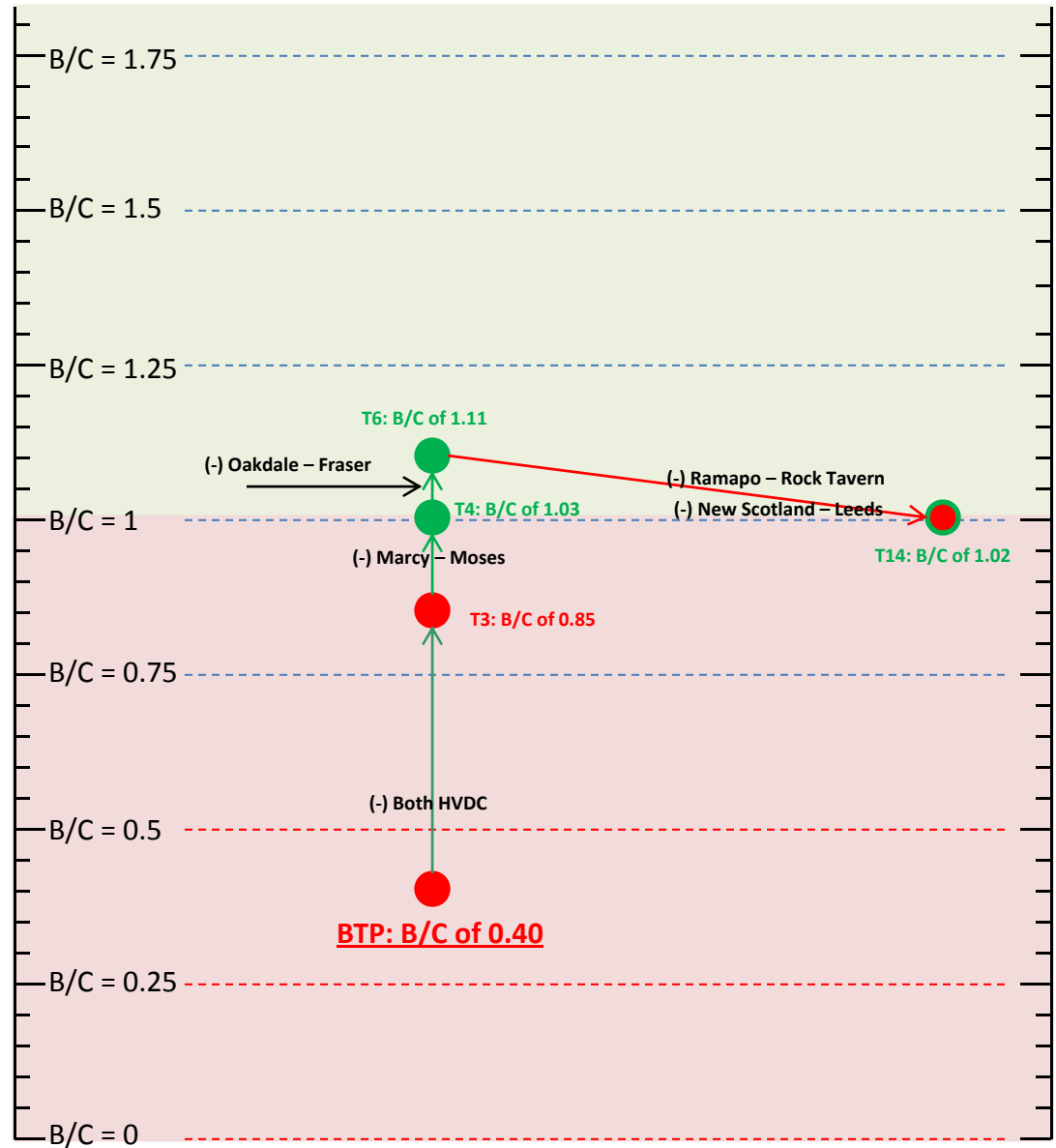
\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – “Shift 1,000 MW Upstate” Scenario (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under Shift 1,000 MW Upstate Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	237	597	0.40	199	+38
T3	222	261	0.85	175	+47
T4	220	213	1.03	176	+44
T6	188	170	1.11	144	+44
T14	120	118	1.02	87	+33

### Notes:

- The “Shift 1,000 MW Upstate” scenario increases considerably the benefits of the transmission system upgrades (all trials).



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

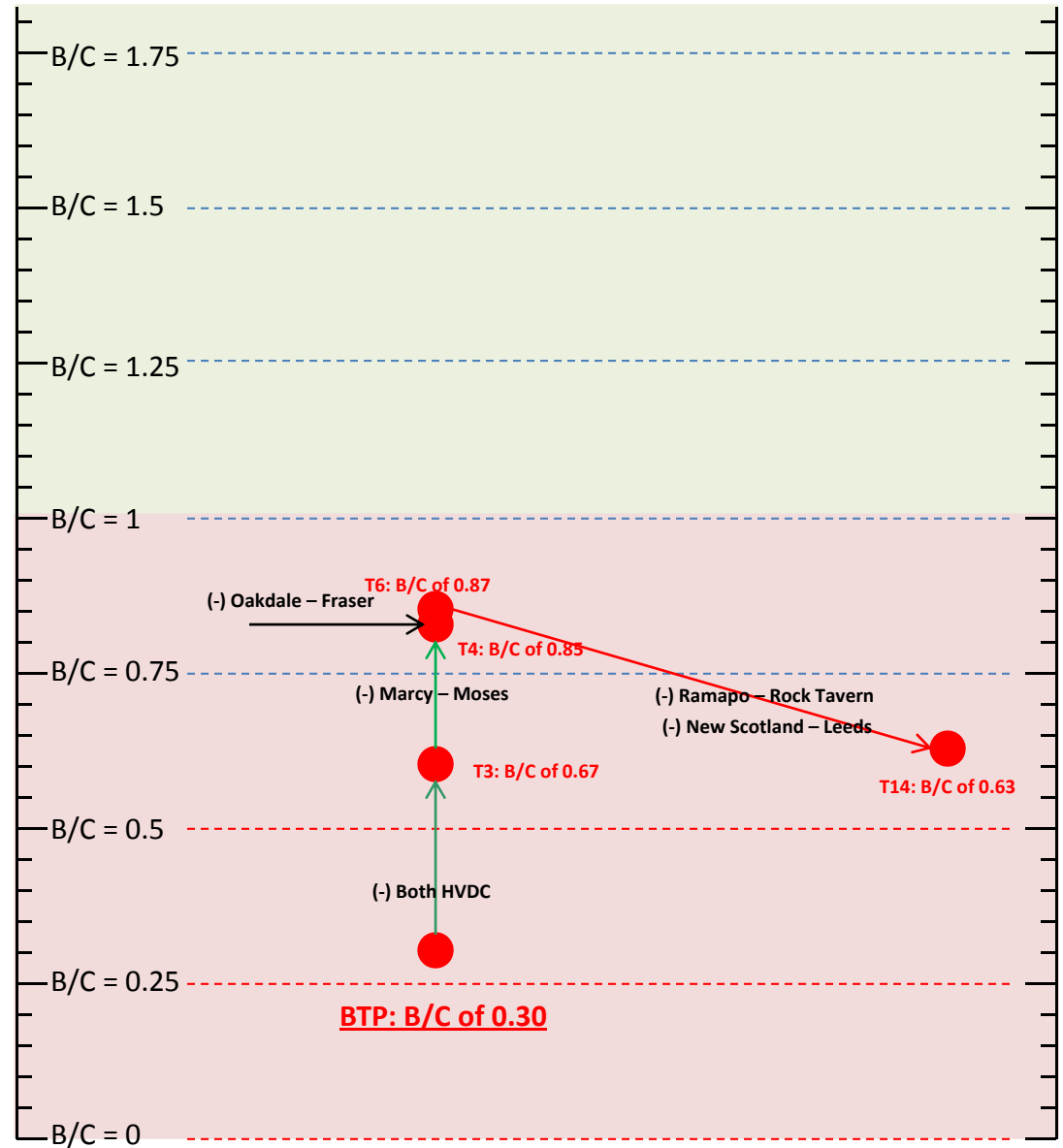
# STARS Base Transmission Plan Trials Results – “Shift 1,000 MW Downstate” Scenario

(B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)

Trial	Benefit Under Shift 1,000 MW Downstate Scenario (M\$)	Cost (M\$)	B/C Ratio (M\$)	Reference Case Benefit (M\$)	Delta Benefit Change (M\$)
Initial (BTP)	173	597	0.29	199	-26
T3	160	261	0.61	175	-15
T4	163	213	0.77	176	-13
T6	129	170	0.76	144	-15
T14	74	118	0.63	87	-13

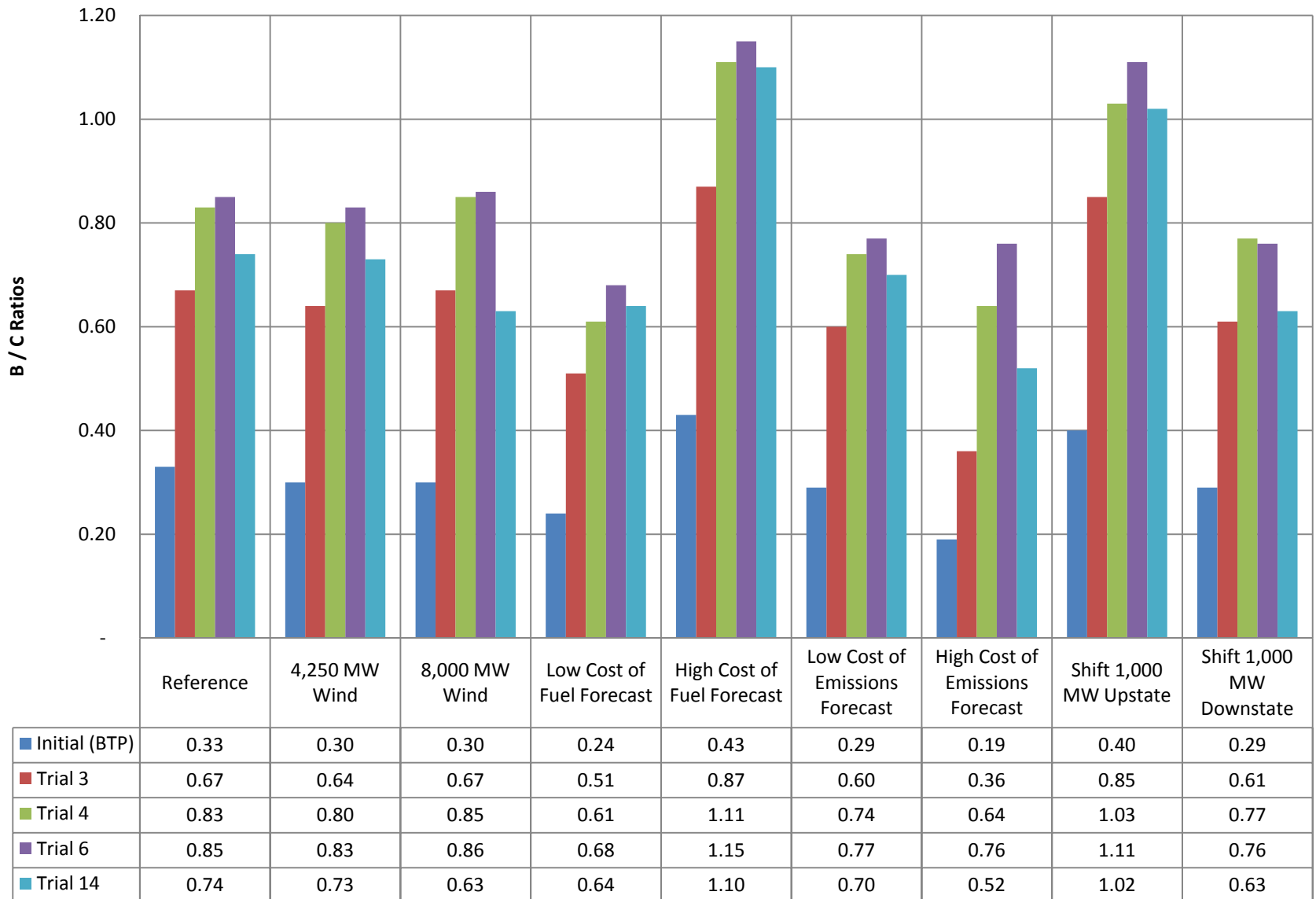
**Notes:**

- The “Shift 1,000 MW Downstate” scenario decreases the benefits of the transmission system upgrades (all trials).
- Highlight, trial 14 benefits drop by 15% or 13 M\$.



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – **Scenarios: B/C Ratios (All Scenarios)** (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)



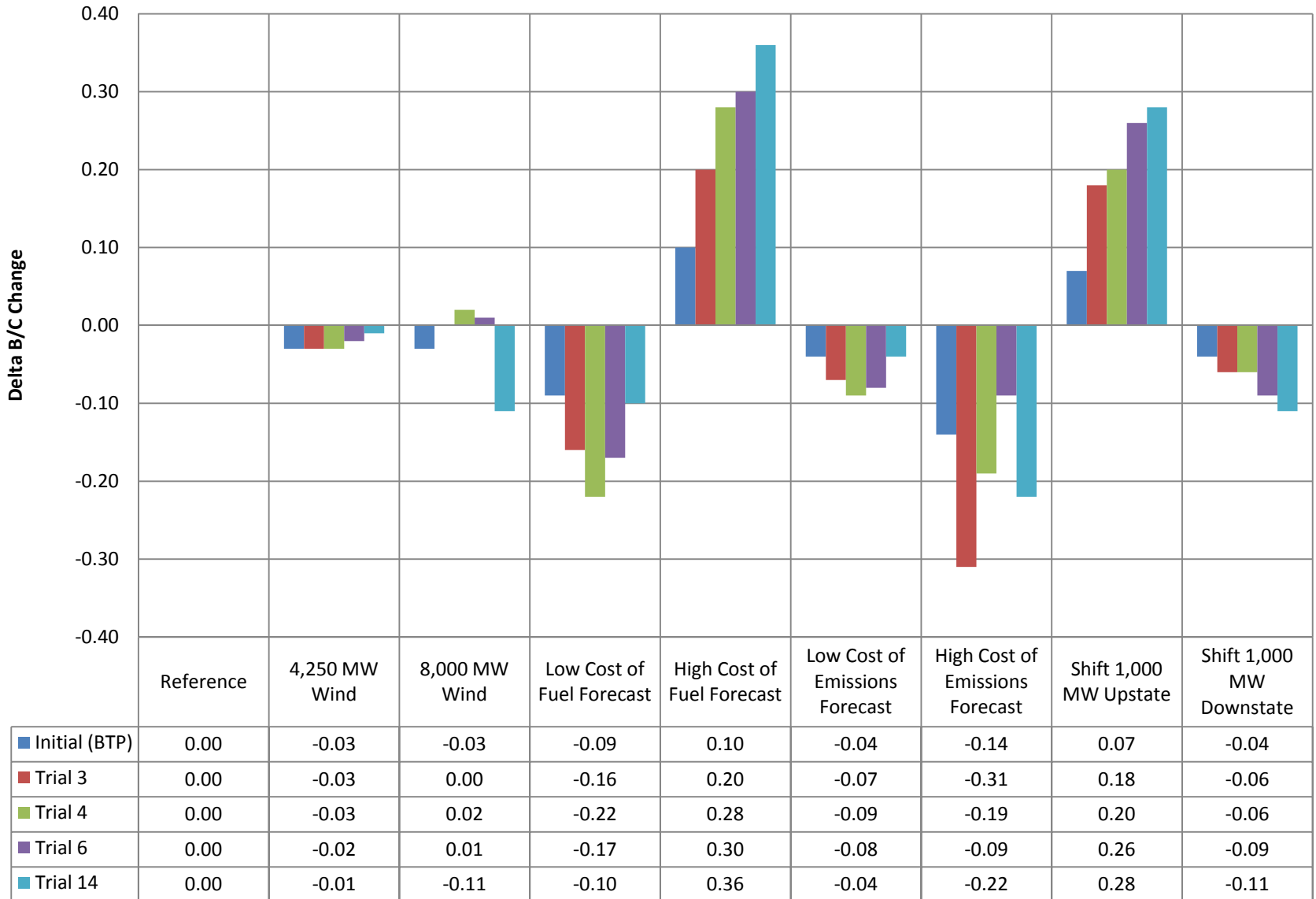
\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – Scenarios: % Change in B/C Ratio (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings

## STARS Base Transmission Plan Trials Results – Scenarios: Delta Change in B/C Ratio (B/C: Benefit to Cost Ratio – Total Production Cost Savings\* Only)



\* Total Production Cost Savings includes Production Cost Savings, Import Cost Savings, and Emissions Cost Savings



# **Attachment #9**

**Sensitivity Analysis**

**New York State Transmission Assessment And Reliability Study (STARS)**  
STARS Phase II Scenario Results  
May 23, 2011

Background

As part of Phase II of the STARS study several future “sensitivities” will be evaluated for the established Reference Case (made up of Replacement In Kind, RIK, and Base Transmission Plan, BTP, cases). In addition to running sensitivities for the Reference Case, several iterations (“Trials”) of the BTP have been developed and each scenario will be evaluated for a few of the trials.

The sensitivities that have been developed will test a single future situation and will be used to evaluate the robustness of the Base Transmission Plan under differing circumstances. The sensitivities include:

- 1) 4,250 MW Installed Wind Capacity
- 2) 8,000 MW Installed Wind Capacity
- 3) High Fuel Price Forecasts
- 4) Low Fuel Price Forecasts
- 5) High Emissions Price Forecasts
- 6) Low Emissions Price Forecasts
- 7) Shift 1,000 MW Generic Generation Downstate
- 8) Shift 1,000 MW Generic Generation Upstate

The BTP Trials that were selected to evaluate sensitivity cases for include the Reference Case, T3, T4, T6, T9, T12, & T14. The results of the sensitivities are contained in the Results section below.

## Sensitivity Definitions & Details

In this section each of the sensitivities will be defined and described in detail.

### 1) 4,250 MW Installed Wind Capacity (Data From 2010 NYISO Wind Study)

The 4,250 MW Wind case represents a decrease in the amount of wind in the NYISO system in comparison to the Reference Case, which contains 6000 MW of installed wind capacity. All units with an “I/S” designation in the Queue column of the table below represent wind plants already in-service (1275 MW total).

<b>Units that Compose the 4250 MW Case</b>			
<b>Queue #</b>	<b>Station/Unit</b>	<b>Nameplate Rating (MW)</b>	<b>Zone</b>
I/S	Altona Windfield	99.0	D
I/S	Bliss Windfield	100.5	A
I/S	Canandaigua II	42.5	C
I/S	Canandaigua Wind Farm	82.5	C
I/S	Chateaugay Windpark	106.5	D
I/S	Clinton Windfield	100.5	D
I/S	Ellenburg Windfield	81.0	D
I/S	Fenner Wind Power	30.0	C
I/S	High Sheldon Windfarm	113.0	C
I/S	Madison Wind Power	11.6	E
I/S	Maple Ridge 1	231.0	E
I/S	Maple Ridge 2	90.7	E
I/S	Munnsville Wind Power	34.5	E
I/S	Steel Winds	20.0	A
I/S	Wethersfield 230kV	126.0	C
I/S	Wethersfield Wind Power	6.6	B
113	Prattsburgh Wind Park	55.5	C
119	Prattsburgh Wind Farm	79.5	C
152	Moresville Energy Center	129.0	E
155	Canisteo Hills Windfarm	148.5	C
156	Fairfield Wind Project	120.0	E
157	Orion Energy NY I	100	E
160	Jericho Rise Wind Farm	101.2	D
161	Marble River Wind Farm	88.2	D
166	St. Lawrence Wind Farm	130.0	E
168	Dairy Hills Wind Farm	120.0	C
169	Alabama Ledge Wind Farm	79.2	B
171	Marble River II Wind Farm	140.7	D
182	Howard Wind	62.5	C
186	Jordanville Wind	136.0	E
189	Clayton Wind	126.0	E
197	Tug Hill	78.0	E
198	New Grange Wind Farm	79.9	A
203	GenWy Wind Farm	478.5	A
207	Cape Vincent	210.0	E

<b>220</b>	Armenia Mountain I	175.0	C
<b>221</b>	Armenia Mountain II	75.0	C
<b>222</b>	Ball Hill Windpark	99	A
<b>234</b>	Steel Winds II	60	A
<b>237</b>	Allegany Windfield	79	A

2) 8,000 MW Installed Wind Capacity (Data From 2010 NYISO Wind Study)

The 8,000 MW Wind Case represents an increase of 2,000 MW of installed wind capacity to the Reference Case.

<b>Units Added to the 4250MW Case to Create the 8000 MW Case</b>			
<b>Queue #</b>	<b>Station/Unit</b>	<b>Nameplate Rating (MW)</b>	<b>Zone</b>
150	Cherry Valley Wind Power	70	F
178	Allegany Wind	79.0	A
179	Cherry Hill Windpark	102	D
187	North Slope Wind	109.5	D
215	Noble Burke Windpower	120	D
217	Cherry Flats	90	C
227	Orleans Wind	120	B
236	Dean Wind	150	C
238	Tonawanda Creek Wind	75	B
239	Western Door Wind	100	C
240	Farmersville Windpark	100	A
246	Dutch Gap Wind	250	E
254	Ripley-Westfield Wind	124.8	A
256	Niagara Shore Wind	70.5	A
263	Stony Creek Wind Farm	142.5	C
241	Chateaugay II Windpark	19.5	D
270	Hounsfield Wind	268.8	C
282	Concord Wind	101.2	A
285	Machias I	79.2	A
297	Ashford Wind	19.9	A
298	Leicester Wind	57	B
301	Hamlin Wind Farm	80	B
327	Offshore Wind	1400	J, K

The table below gives a more detailed breakdown of the wind generation present in all of the STARS cases (6000 MW wind is installed in the Reference Case):

4,250 MW Wind Case	6,000 MW Wind Case	8,000 MW Wind Case	Queue #	Station/Unit	Nameplate Rating (MW)	Zone
			I/S	Altona Windfield	99	D
			I/S	Bliss Windfield	100.5	A
			I/S	Canandaigua II	42.5	C
			I/S	Canandaigua Wind Farm	82.5	C
			I/S	Chateaugay Windpark	106.5	D
			I/S	Clinton Windfield	100.5	D
			I/S	Ellenburg Windfield	81	D
			I/S	Fenner Wind Power	30	C
			I/S	High Sheldon Windfarm	113	C
			I/S	Madison Wind Power	11.6	E
			I/S	Maple Ridge 1	231	E
			I/S	Maple Ridge 2	90.7	E
			I/S	Munnsville Wind Power	34.5	E
			I/S	Steel Winds	20	A
			I/S	Wethersfield 230kV	126	C
			I/S	Wethersfield Wind Power	6.6	B
			113	Prattsburgh Wind Park	55.5	C
			119	Prattsburgh Wind Farm	79.5	C
			152	Moresville Energy Center	129	E
			155	Canisteo Hills Windfarm	148.5	C
			156	Fairfield Wind Project	120	E
			157	Orion Energy NY I	100	E
			160	Jericho Rise Wind Farm	101.2	D
			161	Marble River Wind Farm	88.2	D
			166	St. Lawrence Wind Farm	130	E
			168	Dairy Hills Wind Farm	120	C
			169	Alabama Ledge Wind Farm	79.2	B
			171	Marble River II Wind Farm	140.7	D
			182	Howard Wind	62.5	C
			186	Jordanville Wind	136	E
			189	Clayton Wind	126	E
			197	Tug Hill	78	E
			198	New Grange Wind Farm	79.9	A
			203	GenWy Wind Farm	478.5	A
			207	Cape Vincent	210	E
			220	Armenia Mountain I	175	C
			221	Armenia Mountain II	75	C
			222	Ball Hill Windpark	99	A
			234	Steel Winds II	60	A
			237	Allegheny Windfield	79	A

<b>4,250 MW Wind Case</b>	<b>6,000 MW Wind Case</b>	<b>8,000 MW Wind Case</b>	<b>Queue #</b>	<b>Station/Unit</b>	<b>Nameplate Rating (MW)</b>	<b>Zone</b>
			150	Cherry Valley Wind Power	70	F
			178	Allegany Wind	79	A
			179	Cherry Hill Windpark	102	D
			187	North Slope Wind	109.5	D
			215	Noble Burke Windpower	120	D
			217	Cherry Flats	90	C
			227	Orleans Wind	120	B
			236	Dean Wind	150	C
			238	Tonawanda Creek Wind	75	B
			239	Western Door Wind	100	C
			240	Farmersville Windpark	100	A
			246	Dutch Gap Wind	250	E
			254	Ripley-Westfield Wind	124.8	A
			256	Niagara Shore Wind	70.5	A
			263	Stony Creek Wind Farm	142.5	C
			241	Chateaugay II Windpark	19.5	D
			270	Hounsfield Wind	268.8	C
			282	Concord Wind	101.2	A
			285	Machias I	79.2	A
			297	Ashford Wind	19.9	A
			298	Leicester Wind	57	B
			301	Hamlin Wind Farm	80	B
			327	Offshore Wind	1400	J, K

### 3) High Fuel Price Forecasts

The high fuel price forecast is set to one standard deviation above the 2030 fuel forecast developed by the NYISO forecasting group. The high fuel forecasts for Coal and Uranium did not change due to the relative stability of the two fuel markets. Fuel prices are shown in \$/MMBtu.

Fuel Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
COAL_AE	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_AEP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_AP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_BG&E	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_CE	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_Central	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_Connecticut	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_DAY	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_DLCO	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_DP&L	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_DVP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_HudsonValley	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_Maine	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_METED	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_MohawkValley	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_NEISO	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_NeMassBost	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_Newhampshire	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_NYISO	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_ONTARIO	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
COAL_PECO	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_PENELEC	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PEPCO	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PJM	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PPL	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PSE&G	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_RhodeIsland	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_SeMass	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_WCMass	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_West	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
FO2_Capital	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO2_Central	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO2_HudsonValley	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO2_LongIsland	42.1	41.8	42	43.6	45.3	44.9	45	44.6	43.7	43.3	43.5	43
FO2_MohawkValley	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO2_North	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO2_NYCity	42.1	41.8	42	43.6	45.3	44.9	45	44.6	43.7	43.3	43.5	43
FO2_West	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
FO6_Central	38	37.6	37.5	38	38.2	38.1	38.4	38.5	38.5	37.9	38.2	38.3



FO6_HudsonValley	38	37.6	37.5	38	38.2	38.1	38.4	38.5	38.5	37.9	38.2	38.3
FO6_LongIsland	37.1	36.7	36.6	37.1	37.3	37.2	37.4	37.5	37.5	37	37.2	37.4
FO6_NYC	37.1	36.7	36.6	37.1	37.3	37.2	37.4	37.5	37.5	37	37.2	37.4
GAS_PJM_East	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
GAS_PJM_West	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
GAS-O_NEISO	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
GAS-O_NYISO	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
GAS-O_PJM	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
JF_NYCity	42.1	41.8	42	43.6	45.3	44.9	45	44.6	43.7	43.3	43.5	43
KER_HudsonValley	43.2	42.8	43.1	44.7	46.4	46	46.1	45.7	44.8	44.4	44.6	44.1
KER_LongIsland	42.1	41.8	42	43.6	45.3	44.9	45	44.6	43.7	43.3	43.5	43
KER_NYCity	42.1	41.8	42	43.6	45.3	44.9	45	44.6	43.7	43.3	43.5	43
NG_AE	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_AEP	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_AP	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_BG&E	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_Capital	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_CE	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_Central	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_Connecticut	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_DAY	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_DLCO	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_DP&L	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_DVP	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_ECAR	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_Genessee	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_HudsonValley	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_JCP&L	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_LongIsland	17.8	15	12.5	12.6	12.2	12.6	11.7	12.2	10.7	10.5	11.8	14.6
NG_MAIN	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_METED	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_Millwood	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_MohawkValley	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_NEISO	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_NeMassBost	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_Newhampshire	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_North	14.8	13	12.1	12	11.7	12	10.5	11.1	10.2	9.99	11.3	13
NG_NYCity	17.8	15	12.5	12.6	12.2	12.6	11.7	12.2	10.7	10.5	11.8	14.6
NG_ONTARIO	13	12.2	11.6	11.4	11.8	11.5	11.4	11.7	11.7	11.6	11.7	12.7
NG_PECO	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_PENELEC	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_PEPCO	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_PJM	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_PPL	13	12.5	11.7	11.7	12	12.2	12.3	12.3	11.7	11.4	12.2	12.8
NG_PSE&G	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_Rhodelsland	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_SeMass	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_UGI_RECO	13.2	12.7	12.1	12.1	12.5	12.4	12.4	12.2	11.7	11.6	12.1	13
NG_Vermont	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5

NG_WCMass	13.8	13.6	13	13.1	13.1	13.1	13.1	13.2	13.2	12.3	12.9	13.5
NG_West	12.3	10.9	10.4	10.2	10.1	10.3	9.66	9.68	8.69	9.48	10.4	11.1
OIL-H_NEISO	40.2	39.6	40.6	40.5	40.7	40.1	40.7	41	41.4	40.4	41.4	41.3
OIL-H_PJM	39.9	40.8	41.7	41.9	40.4	39.5	40.1	40.1	40.4	39.7	39.4	40.7
OIL-H_PJM_E	39.9	40.8	41.7	41.9	40.4	39.5	40.1	40.1	40.4	39.7	39.4	40.7
OIL-H_PJM_W	48.5	47.4	48.3	49.3	47	47.4	47.1	47.6	47.1	46.6	46.8	47.1
OIL-L_NEISO	45.3	45	45.9	47.4	49.4	48.3	48.9	48.7	48.1	47.3	48.5	47.7
OIL-L_PJM	44.7	45.6	45.9	48	49.2	47.6	48.2	47.6	46.9	46.4	46.2	46.8
OIL-L_PJM_E	44.7	45.6	45.9	48	49.2	47.6	48.2	47.6	46.9	46.4	46.2	46.8
OIL-L_PJM_W	54.4	53.5	54.1	56.8	56.9	57	56.6	56.5	55.1	54.7	55	54.7
URAN_ECAR	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_EXTERNAL	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_MAIN	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_NEISO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_NYISO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_ONTARIO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_PJM	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_SERC	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24

#### 4) Low Fuel Price Forecasts

The low fuel price forecast is set to one standard deviation below the 2030 fuel forecast developed by the NYISO forecasting group. The low fuel forecasts for Coal and Uranium did not change due to the relative stability of the two fuel markets. Fuel prices are shown in \$/MMBtu.

<b>Fuel Name</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
COAL_AE	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_AEP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_AP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_BG&E	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_CE	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_Central	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_Connecticut	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_DAY	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_DLCO	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_DP&L	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_DVP	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_HudsonValley	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_Maine	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_METED	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_MohawkValley	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_NEISO	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_NeMassBost	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_Newhampshire	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_NYISO	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
COAL_ONTARIO	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
COAL_PECO	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_PENELEC	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PEPSCO	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PJM	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PPL	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03	4.03
COAL_PSE&G	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25	5.25
COAL_RhodeIsland	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_SeMass	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_WCMass	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63
COAL_West	4.83	4.84	4.85	4.86	4.87	4.88	4.88	4.88	4.88	4.88	4.88	4.88
FO2_Capital	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO2_Central	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO2_HudsonValley	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO2_LongIsland	34.6	35.5	38.1	38.9	39.3	40.7	40.1	39.8	39.2	38.3	36.5	35.9
FO2_MohawkValley	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO2_North	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO2_NYCity	34.6	35.5	38.1	38.9	39.3	40.7	40.1	39.8	39.2	38.3	36.5	35.9
FO2_West	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
FO6_Central	30.3	30.5	30.9	32.3	33.6	34.5	34.5	33.9	33.1	32.2	31.6	31.1
FO6_HudsonValley	30.3	30.5	30.9	32.3	33.6	34.5	34.5	33.9	33.1	32.2	31.6	31.1

FO6_LongIsland	29.4	29.5	30	31.4	32.7	33.5	33.6	32.9	32.1	31.3	30.7	30.2
FO6_NYC	29.4	29.5	30	31.4	32.7	33.5	33.6	32.9	32.1	31.3	30.7	30.2
GAS_PJM_East	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
GAS_PJM_West	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
GAS-O_NEISO	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
GAS-O_NYISO	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
GAS-O_PJM	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
JF_NYCity	34.6	35.5	38.1	38.9	39.3	40.7	40.1	39.8	39.2	38.3	36.5	35.9
KER_HudsonValley	35.8	36.6	39.2	40	40.4	41.8	41.2	40.9	40.3	39.4	37.6	37.1
KER_LongIsland	34.6	35.5	38.1	38.9	39.3	40.7	40.1	39.8	39.2	38.3	36.5	35.9
KER_NYCity	34.6	35.5	38.1	38.9	39.3	40.7	40.1	39.8	39.2	38.3	36.5	35.9
NG_AE	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_AEP	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_AP	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_BG&E	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_Capital	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_CE	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_Central	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_Connecticut	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_DAY	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_DLCO	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_DP&L	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_DVP	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_ECAR	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_Genessee	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_HudsonValley	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_JCP&L	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_LongIsland	11.6	9.89	9.4	9	9.12	8.99	8.78	8.96	7.4	9.15	9.98	10.2
NG_MAIN	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_METED	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_Millwood	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_MohawkValley	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_NEISO	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_NeMassBost	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_Newhampshire	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_North	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
NG_NYCity	11.6	9.89	9.4	9	9.12	8.99	8.78	8.96	7.4	9.15	9.98	10.2
NG_ONTARIO	8.91	9.33	9.73	9.92	9.54	9.9	9.9	9.71	9.47	9.74	9.8	9.1
NG_PECO	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_PENELEC	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_PEPSCO	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_PJM	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_PPL	9.33	9.4	9.96	9.98	9.72	9.49	9.31	9.49	9.83	10.2	9.73	9.36
NG_PSE&G	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_Rhodelsland	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_SeMass	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_UGI_RECO	9.4	9.53	9.93	9.91	9.54	9.65	9.6	9.86	10.1	10.5	10.1	9.56
NG_Vermont	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1
NG_WCMass	9.87	9.64	10	9.95	9.99	10	9.88	9.97	9.68	10.8	10.3	10.1

NG_West	9.89	8.91	8.62	8.45	8.51	8.52	8.77	8.22	7.19	8.96	9.38	9.24
OIL-H_NEISO	31.9	32.1	31.6	33.5	34.8	36.2	36.1	35.4	34.3	34.2	32.9	32.7
OIL-H_PJM	30.3	29	28.6	30.3	33.2	35	34.8	34.4	33.5	32.9	33	31.5
OIL-H_PJM_E	30.3	29	28.6	30.3	33.2	35	34.8	34.4	33.5	32.9	33	31.5
OIL-H_PJM_W	36.2	37	36.6	37.5	41.3	41.7	42.5	41.6	41.6	40.9	40.4	39.9
OIL-L_NEISO	38	38.9	40.8	41.8	41.8	43.9	43.1	42.9	42.2	41.8	39.4	39.3
OIL-L_PJM	36.4	36.1	38.6	38.9	39.9	42.4	41.6	41.7	41.1	40.4	39.3	37.9
OIL-L_PJM_E	36.4	36.1	38.6	38.9	39.9	42.4	41.6	41.7	41.1	40.4	39.3	37.9
OIL-L_PJM_W	44	45.3	47.6	47.5	49.5	50.3	50.7	50.3	50.5	49.7	48.2	47.7
URAN_ECAR	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_EXTERNAL	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_MAIN	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_NEISO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_NYISO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_ONTARIO	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_PJM	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
URAN_SERC	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24

5) High Emissions Price Forecasts

In the High Emissions Price Forecast Case the price of CO<sub>2</sub> is set to \$100/ton and prices for SO<sub>2</sub> and NO<sub>x</sub> are 2x the values from the Reference Case. This is a similar method as to what was used in the CARIS I 2009 study to simulate a high emissions price forecast. The emissions price changes were applied to all zones and regions in the simulation.

<b>Emissions Type</b>	<b>Reference Case Emissions Cost (\$/ton)</b>	<b>High Emissions Case Emissions Cost (\$/ton)</b>
CO <sub>2</sub>	46.18	100.00
NO <sub>x</sub>	2122.00	4244.00
SO <sub>2</sub>	467.90	935.80

6) Low Emissions Price Forecasts

In the Low Emissions Price Forecast Case the price of CO<sub>2</sub>, NO<sub>x</sub>, & SO<sub>2</sub> is set to the values used in the CARIS I 2009 study. The emissions price changes were applied to all zones and regions in the simulation.

<b>Emissions Type</b>	<b>Reference Case Emissions Cost (\$/ton)</b>	<b>Low Emissions Case Emissions Cost (\$/ton)</b>
CO <sub>2</sub>	46.18	6.18
NO <sub>x</sub>	2122.00	300.30
SO <sub>2</sub>	467.90	17.16

7) Shift 1,000 MW Generic Generation Downstate

To shift generation downstate, several generators were selected in Zone C and reassigned to busses in Zones J&K. If 1000 MW of generic generation was not available in C to relocate, nearby zones were used. Details of the generation shift can be seen in the table below.

<b>Generator</b>	<b>Old Bus</b>	<b>New Bus</b>	<b>Pmax Old (MW)</b>	<b>Pmax New (MW)</b>	<b>MW Shift</b>
Gen @120101_ID_C1	Kintigh	Holbrook	187	187	187
Gen @120201_ID_C1	Rochester	Ruland Road	187	187	187
Gen @120301_ID_C1	Scriba	E13TH 345kV	187	187	187
Gen @120302_ID_C2	Scriba	W49TH ST	187	187	187
Gen @120501_ID_C1	Edic	W49TH ST	187	187	187
Gen @120801_ID_C1	Pleasantville	Rainey	56	56	56
Gen @121103_ID_C3	Holbrook*	x	187	196	9
Gen @120101_ID_C1	Kintigh*	x	187	178	0

*\*Generic generation adjusted to create an exact 1000 MW shift*

8) Shift 1,000 MW Generic Generation Upstate

To shift generation upstate, several generators were selected in Zones J&K and reassigned to busses in Zone C. Details of the generation shift can be seen in the table below.

<b>Generator</b>	<b>Old Bus</b>	<b>New Bus</b>	<b>Pmax Old (MW)</b>	<b>Pmax New (MW)</b>	<b>MW Shift</b>
Gen @121001_ID_C1	E13TH 345kV	Scriba	187	187	187
Gen @121002_ID_C2	Rainey	Scriba	187	187	187
Gen @121003_ID_C3	Gowanus North	Scriba	187	187	187
Gen @121004_ID_C4	W49TH ST	Scriba	187	187	187
Gen @121101_ID_C1	Ruland Rd	Rochester	187	187	187
Gen @120101_ID_C1	Kintigh*	x	187	252	65
Gen @121103_ID_C3	Holbrook*	x	187	122	0

*\*Generic generation adjusted to create an exact 1000 MW shift*

Results

The results being presented in this document show the Benefit/Cost (B/C) ratios for each BTP Trial selected for each of the sensitivities defined. The table below shows the detailed results of the analysis:

*STARS Base Transmission Plan Sensitivity Analysis Results – Production Cost Savings B/C Ratios*

Sensitivity	Reference		T3		T4		T6		T9		T12		T14	
	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio	Total Production Cost (M\$)	B/C Ratio
Reference	199	0.33	175	0.67	176	0.83	144	0.85	75	1.56	117	0.82	87	0.74
4250 MW Wind	180	0.30	167	0.64	170	0.80	141	0.83	72	1.50	109	0.77	86	0.73
8000 MW Wind	181	0.30	175	0.67	181	0.85	146	0.86	74	1.54	118	0.83	74	0.62
Low Fuel Forecast	144	0.24	132	0.51	130	0.61	115	0.68	71	1.48	92	0.65	76	0.64
High Fuel Forecast	259	0.43	228	0.88	236	1.11	196	1.16	111	2.31	163	1.15	130	1.10
Low Emissions Forecast	173	0.29	157	0.60	158	0.74	131	0.77	73	1.52	113	0.80	83	0.70
High Emissions Forecast	113	0.19	95	0.36	136	0.64	129	0.76	58	1.21	100	0.70	61	0.51
Shift 1000 MW Upstate	237	0.40	222	0.85	220	1.03	188	1.11	112	2.33	158	1.11	120	1.02
Shift 1000 MW Downstate	173	0.29	160	0.61	163	0.76	129	0.76	66	1.38	101	0.71	74	0.63



*STARS Base Transmission Plan Sensitivity Analysis Results – Load LBMP Payment Savings B/C Ratios*

Sensitivity	Reference		T3		T4		T6		T9		T12		T14	
	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio	LBMP Payment Savings (M\$)	B/C Ratio
Reference	109	0.21	77	0.53	67	0.67	73	1.30	28	0.57	67	1.40	30	1.23
4250 MW Wind	123	0.24	94	0.64	85	0.86	83	1.49	33	0.68	78	1.62	38	1.57
8000 MW Wind	53	0.10	35	0.24	22	0.23	30	0.53	-5	-0.10	17	0.35	3	0.14
Low Fuel Forecast	24	0.05	12	0.08	15	0.15	1	0.02	-19	-0.40	-2	-0.04	-16	-0.68
High Fuel Forecast	177	0.34	125	0.85	106	1.08	109	1.95	45	0.94	101	2.10	41	1.72
Low Emissions Forecast	127	0.25	82	0.56	68	0.69	74	1.33	29	0.61	71	1.48	29	1.19
High Emissions Forecast	50	0.10	28	0.19	27	0.27	39	0.70	20	0.42	49	1.03	4	0.18
Shift 1000 MW Upstate	175	0.34	129	0.88	119	1.21	124	2.22	53	1.11	124	2.58	46	1.93
Shift 1000 MW Downstate	66	0.13	48	0.32	30	0.30	38	0.69	5	0.10	31	0.65	13	0.56

*STARS Base Transmission Plan Sensitivity Analysis Results – BTP Savings Breakdown*

<b>Production Cost Results</b>	<b>Savings Created by BTP (BTP - RIK)</b>				
<b>Sensitivity Case</b>	<b>Production Cost (M\$)</b>	<b>Import Cost (M\$)</b>	<b>Emissions Cost (M\$)</b>	<b>Total NYISO Production Cost (M\$)</b>	<b>Load LBMP Payment (M\$)</b>
4250 MW Wind BTP	147	18	14	180	123
4250 MW Wind BTP T12	104	-3	9	109	78
4250 MW Wind BTP T14	87	-7	7	86	38
4250 MW Wind BTP T3	137	15	14	167	94
4250 MW Wind BTP T4	120	41	9	170	85
4250 MW Wind BTP T6	114	19	9	141	83
4250 MW Wind BTP T9	68	0	4	72	33
8000 MW Wind BTP	153	17	11	181	53
8000 MW Wind BTP T12	122	-14	10	118	17
8000 MW Wind BTP T14	79	-10	5	74	3
8000 MW Wind BTP T3	154	7	15	175	35
8000 MW Wind BTP T4	143	27	11	181	22
8000 MW Wind BTP T6	126	12	8	146	30
8000 MW Wind BTP T9	79	-11	6	74	-5
High Emissions Forecast BTP	101	-7	18	113	50
High Emissions Forecast BTP T12	76	20	4	100	49
High Emissions Forecast BTP T14	55	-1	7	61	4
High Emissions Forecast BTP T3	88	-6	13	95	28
High Emissions Forecast BTP T4	86	34	17	136	27
High Emissions Forecast BTP T6	79	37	13	129	39
High Emissions Forecast BTP T9	47	11	0	58	20
High Fuel Forecast BTP	212	26	20	259	177

High Fuel Forecast BTP T12	139	10	14	163	101
High Fuel Forecast BTP T14	112	8	10	130	41
High Fuel Forecast BTP T3	178	31	20	228	125
High Fuel Forecast BTP T4	162	58	16	236	106
High Fuel Forecast BTP T6	147	34	15	196	109
High Fuel Forecast BTP T9	100	3	8	111	45
	170	-1	4	173	127
Low Emissions Forecast BTP					
Low Emissions Forecast BTP T12	124	-14	3	113	71
Low Emissions Forecast BTP T14	93	-12	2	83	29
Low Emissions Forecast BTP T3	151	3	3	157	82
Low Emissions Forecast BTP T4	143	12	3	158	68
Low Emissions Forecast BTP T6	135	-8	3	131	74
Low Emissions Forecast BTP T9	78	-7	2	73	29
	118	18	8	144	24
Low Fuel Forecast BTP					
Low Fuel Forecast BTP T12	91	-11	11	92	-2
Low Fuel Forecast BTP T14	81	-13	9	76	-16
Low Fuel Forecast BTP T3	103	16	13	132	12
Low Fuel Forecast BTP T4	95	29	6	130	15
Low Fuel Forecast BTP T6	97	8	10	115	1
Low Fuel Forecast BTP T9	75	-12	8	71	-19
Reference BTP	172	14	12	199	109
Reference BTP T12	113	-3	8	117	67
Reference BTP T14	87	-6	7	87	30
Reference BTP T3	148	11	17	175	77

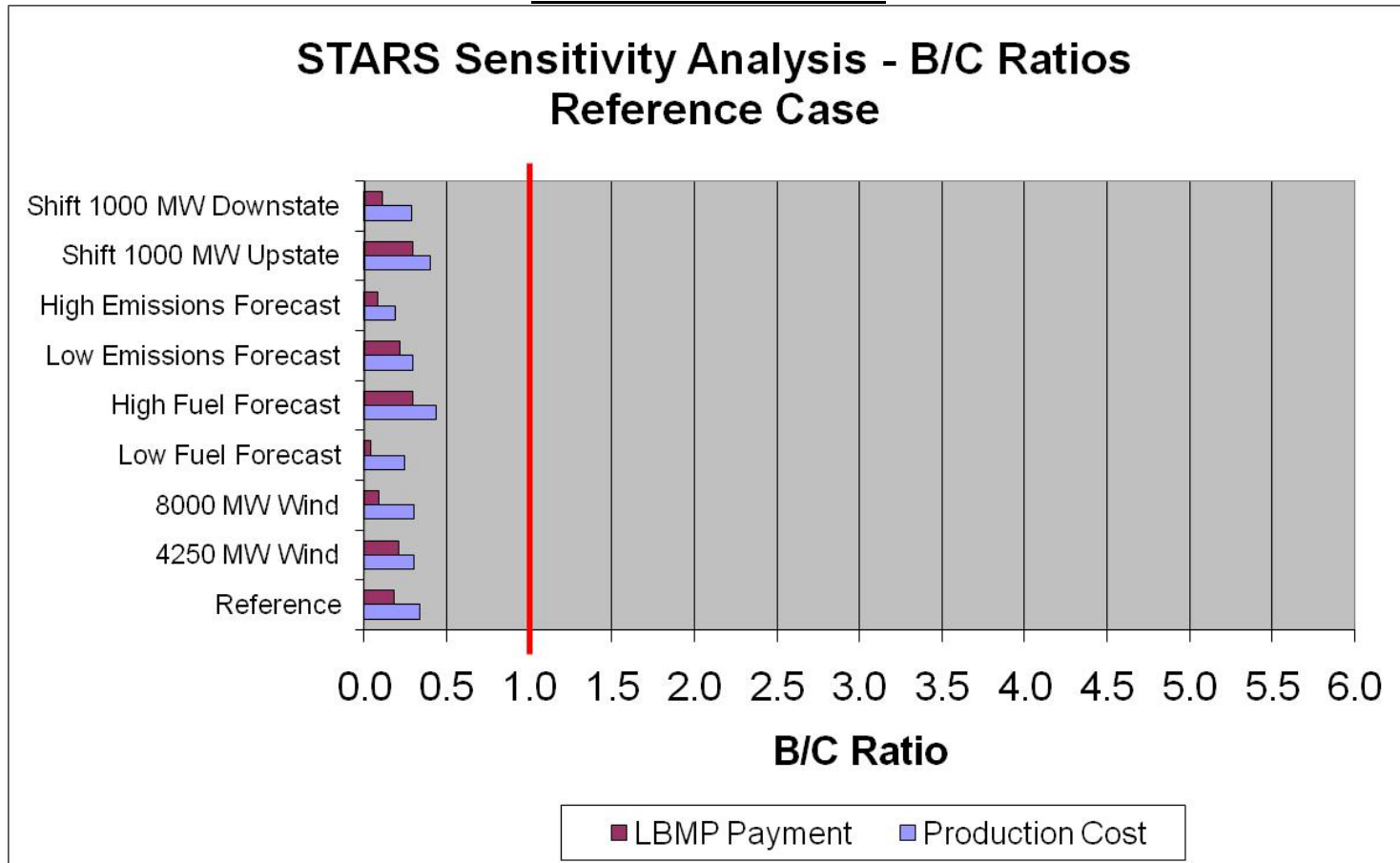
Reference BTP T4	128	38	10	176	67
Reference BTP T6	119	16	10	144	73
Reference BTP T9	73	-4	6	75	28
Shift 1000MW Downstate BTP	149	7	17	173	66
Shift 1000MW Downstate BTP T12	104	-13	10	101	31
Shift 1000MW Downstate BTP T14	79	-12	7	74	13
Shift 1000MW Downstate BTP T3	138	6	17	160	48
Shift 1000MW Downstate BTP T4	125	26	12	163	30
Shift 1000MW Downstate BTP T6	112	7	11	129	38
Shift 1000MW Downstate BTP T9	69	-10	7	66	5
Shift 1000MW Upstate BTP	204	20	13	237	175
Shift 1000MW Upstate BTP T12	148	0	10	158	124
Shift 1000MW Upstate BTP T14	124	-13	9	120	46
Shift 1000MW Upstate BTP T3	191	11	20	222	129
Shift 1000MW Upstate BTP T4	169	35	16	220	119
Shift 1000MW Upstate BTP T6	160	18	11	188	124
Shift 1000MW Upstate BTP T9	114	-10	8	112	53

Sensitivity Case	Detailed Production Cost Data					
	Production Cost (M\$)	Import Cost (M\$)	Emission Cost (M\$)	Total NYISO Production Cost (M\$)	Load LBMP Payment (M\$)	Total NYISO Savings (M\$)
Reference RIK	7,996	1,084	2,451	11,531	23,026	
Reference BTP	7,823	1,069	2,439	11,332	22,917	199
Reference BTP T3	7,848	1,073	2,434	11,355	22,949	175
Reference BTP T4	7,868	1,046	2,441	11,355	22,959	176
Reference BTP T6	7,877	1,068	2,442	11,387	22,953	144
Reference BTP T9	7,923	1,088	2,445	11,456	22,999	75
Reference BTP T12	7,883	1,087	2,443	11,413	22,959	117
Reference BTP T14	7,909	1,090	2,444	11,443	22,997	87
4250 MW Wind RIK	8,244	1,242	2,548	12,034	23,175	
4250 MW Wind BTP	8,097	1,224	2,533	11,854	23,052	180
4250 MW Wind BTP T3	8,107	1,227	2,534	11,867	23,081	167
4250 MW Wind BTP T4	8,124	1,201	2,539	11,864	23,090	170
4250 MW Wind BTP T6	8,130	1,223	2,539	11,893	23,091	141
4250 MW Wind BTP T9	8,176	1,242	2,544	11,962	23,142	72
4250 MW Wind BTP T12	8,141	1,245	2,539	11,924	23,097	109
4250 MW Wind BTP T14	8,158	1,249	2,541	11,948	23,137	86
8000 MW Wind RIK	7,572	862	2,323	10,756	22,719	
8000 MW Wind BTP	7,419	845	2,312	10,576	22,666	181
8000 MW Wind BTP T3	7,417	855	2,309	10,581	22,684	175
8000 MW Wind BTP T4	7,429	834	2,313	10,576	22,696	181
8000 MW Wind BTP T6	7,446	849	2,315	10,610	22,689	146
8000 MW Wind BTP T9	7,493	872	2,318	10,682	22,724	74
8000 MW Wind BTP T12	7,450	876	2,313	10,638	22,702	118
8000 MW Wind BTP T14	7,493	872	2,318	10,683	22,715	74
Low Fuel Forecast RIK	7,665	422	2,510	10,597	21,334	
Low Fuel Forecast BTP	7,546	405	2,502	10,453	21,311	144
Low Fuel Forecast BTP T3	7,561	406	2,498	10,465	21,323	132
Low Fuel Forecast BTP T4	7,570	393	2,504	10,467	21,319	130
Low Fuel Forecast BTP T6	7,568	414	2,500	10,482	21,333	115
Low Fuel Forecast BTP T9	7,589	434	2,502	10,526	21,354	71
Low Fuel Forecast BTP T12	7,573	433	2,499	10,505	21,336	92
Low Fuel Forecast BTP T14	7,584	436	2,502	10,521	21,351	76
High Fuel Forecast RIK	8,304	1,689	2,395	12,388	24,613	
High Fuel Forecast BTP	8,091	1,663	2,375	12,129	24,436	259
High Fuel Forecast BTP T3	8,126	1,657	2,376	12,159	24,487	228
High Fuel Forecast BTP T4	8,142	1,631	2,379	12,151	24,506	236
High Fuel Forecast BTP T6	8,156	1,654	2,380	12,191	24,504	196
High Fuel Forecast BTP T9	8,203	1,686	2,387	12,276	24,567	111
High Fuel Forecast BTP T12	8,165	1,678	2,382	12,225	24,512	163
High Fuel Forecast BTP T14	8,191	1,681	2,385	12,257	24,571	130
Low Emissions Forecast RIK	7,288	989	331	8,607	17,904	
Low Emissions Forecast BTP	7,118	989	327	8,434	17,776	173
Low Emissions Forecast BTP T3	7,137	986	327	8,450	17,821	157
Low Emissions Forecast BTP T4	7,145	977	327	8,449	17,836	158
Low Emissions Forecast BTP T6	7,153	996	327	8,476	17,829	131
Low Emissions Forecast BTP T9	7,210	995	329	8,534	17,874	73
Low Emissions Forecast BTP T12	7,164	1,003	328	8,494	17,833	113
Low Emissions Forecast BTP T14	7,195	1,001	328	8,524	17,875	83
High Emissions Forecast RIK	9,318	914	5,132	15,363	30,755	
High Emissions Forecast BTP	9,217	920	5,113	15,250	30,705	113

High Emissions Forecast BTP T3	9,230	919	5,119	15,268	30,727	95
High Emissions Forecast BTP T4	9,232	880	5,115	15,227	30,728	136
High Emissions Forecast BTP T6	9,239	877	5,118	15,234	30,716	129
High Emissions Forecast BTP T9	9,271	903	5,132	15,305	30,735	58
High Emissions Forecast BTP T12	9,242	893	5,128	15,263	30,705	100
High Emissions Forecast BTP T14	9,263	914	5,125	15,302	30,750	61
Shift 1000MW Upstate RIK	7,976	1,161	2,444	11,582	23,210	
Shift 1000MW Upstate BTP	7,772	1,141	2,431	11,344	23,035	237
Shift 1000MW Upstate BTP T3	7,785	1,151	2,424	11,360	23,081	222
Shift 1000MW Upstate BTP T4	7,807	1,127	2,428	11,362	23,091	220
Shift 1000MW Upstate BTP T6	7,816	1,144	2,433	11,393	23,086	188
Shift 1000MW Upstate BTP T9	7,862	1,171	2,436	11,470	23,157	112
Shift 1000MW Upstate BTP T12	7,828	1,161	2,434	11,423	23,086	158
Shift 1000MW Upstate BTP T14	7,853	1,174	2,435	11,462	23,164	120
Shift 1000MW Downstate RIK	7,995	1,002	2,460	11,457	22,894	
Shift 1000MW Downstate BTP	7,846	995	2,443	11,284	22,828	173
Shift 1000MW Downstate BTP T3	7,857	996	2,443	11,297	22,846	160
Shift 1000MW Downstate BTP T4	7,870	976	2,448	11,294	22,864	163
Shift 1000MW Downstate BTP T6	7,883	995	2,449	11,327	22,856	129
Shift 1000MW Downstate BTP T9	7,926	1,012	2,453	11,391	22,889	66
Shift 1000MW Downstate BTP T12	7,891	1,016	2,450	11,356	22,863	101
Shift 1000MW Downstate BTP T14	7,916	1,014	2,453	11,383	22,881	74

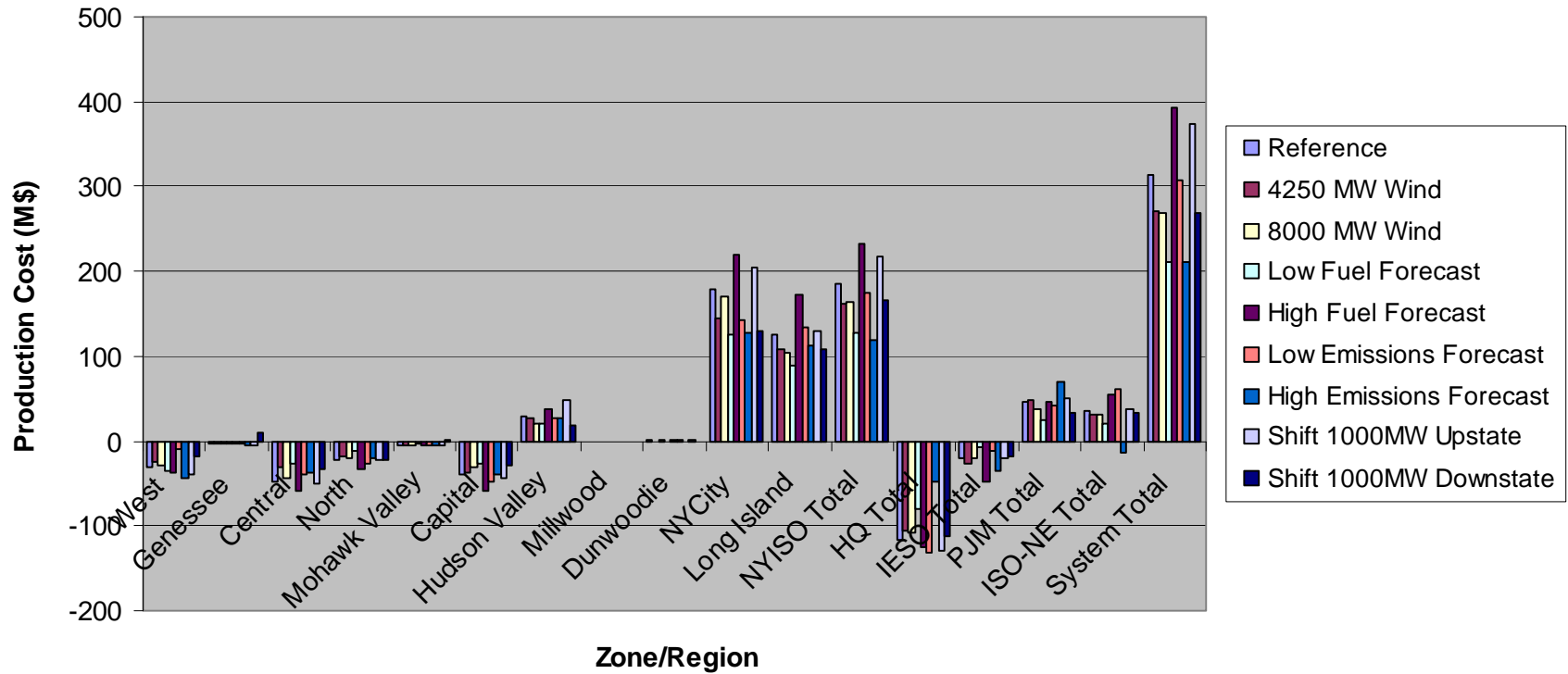
The Benefit/Cost Ratio data in the tables above, as well as several additional metrics, were calculated for each of the BTP Trials and the results are in the proceeding sections.

Reference Case Sensitivites



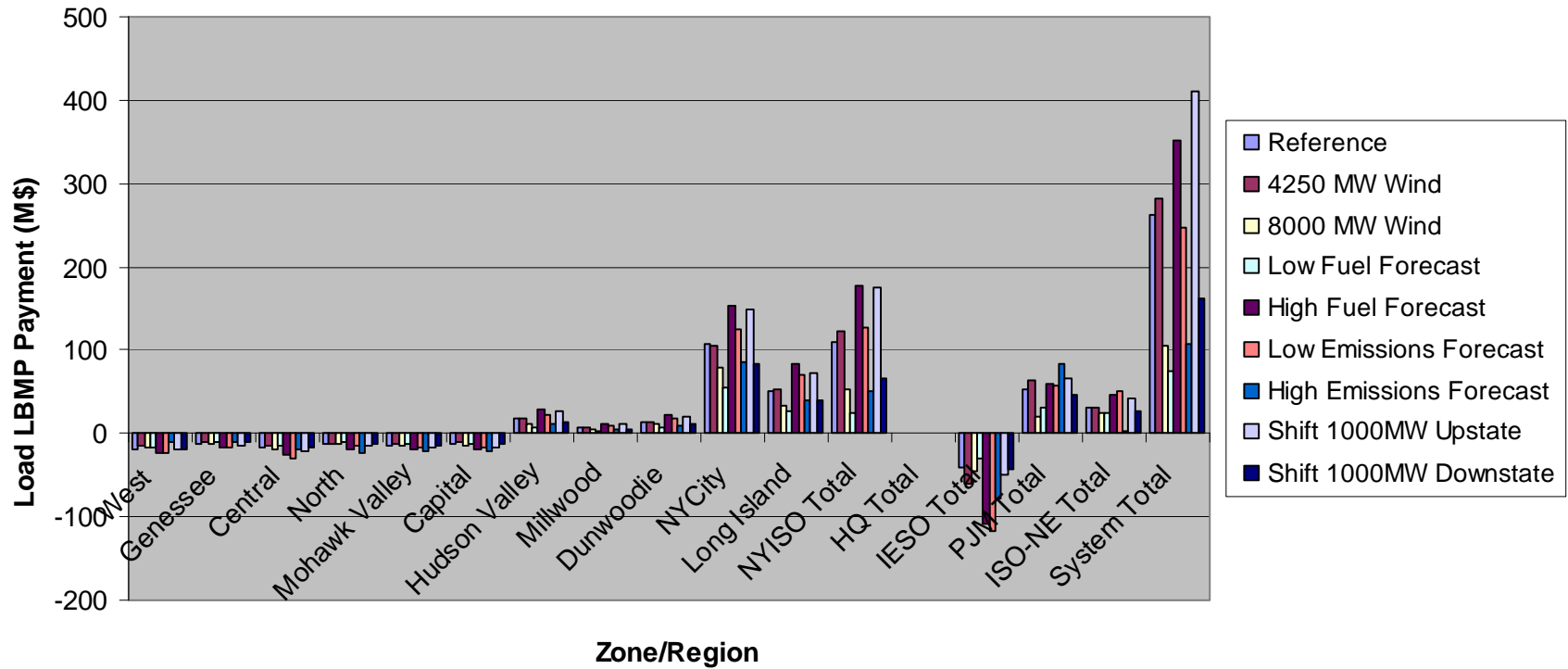
Reference Case Elements In-Service
Pleasant Valley - Sprainbrook HVDC Line
Pleasant Valley - Ruland Road HVDC Line
Moses-Marcy
Moses-Edic
Oakdale-Fraser
Marcy-Jordanville-Princetown-New Scotland
Rock Tavern-Ramapo 345
New Scotland-Leeds 345
Leeds-Pleasant Valley 345

**Reference Case Production Cost Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

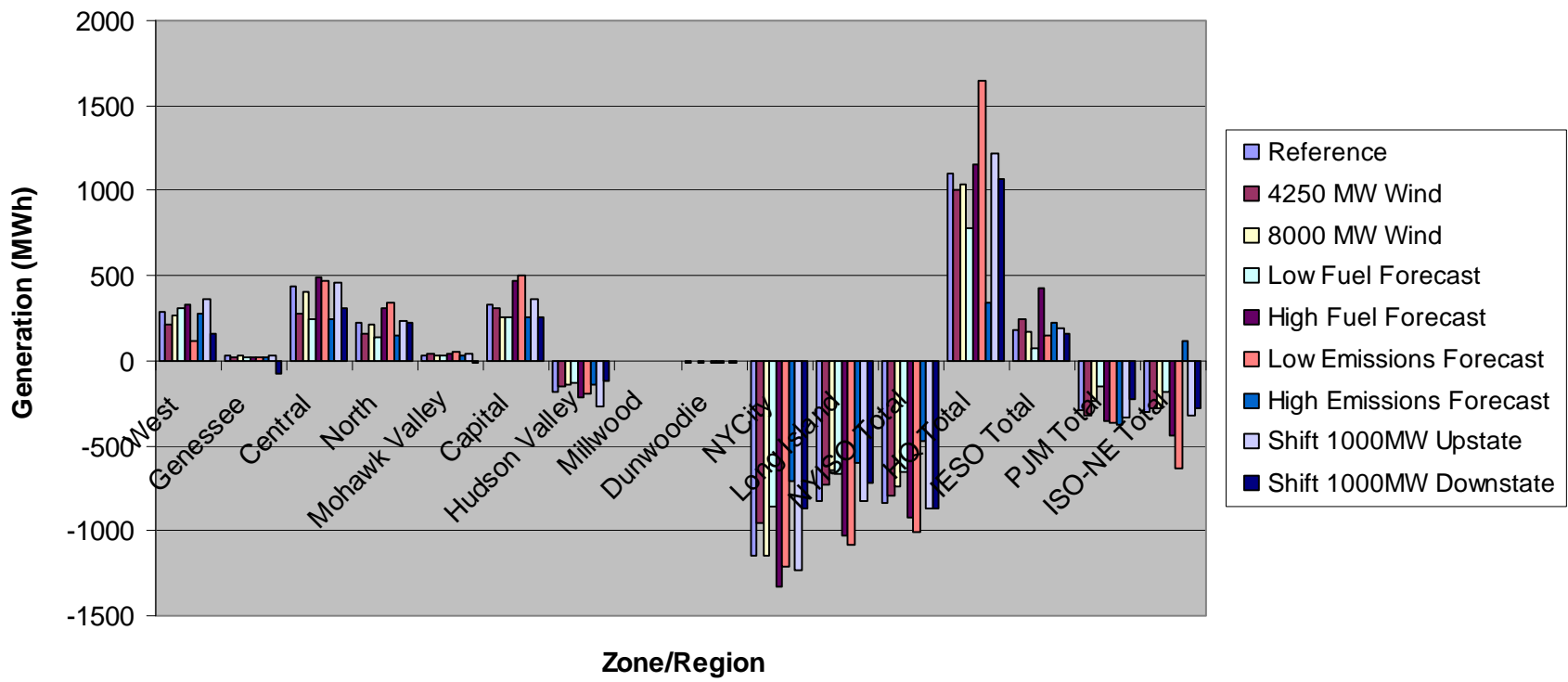




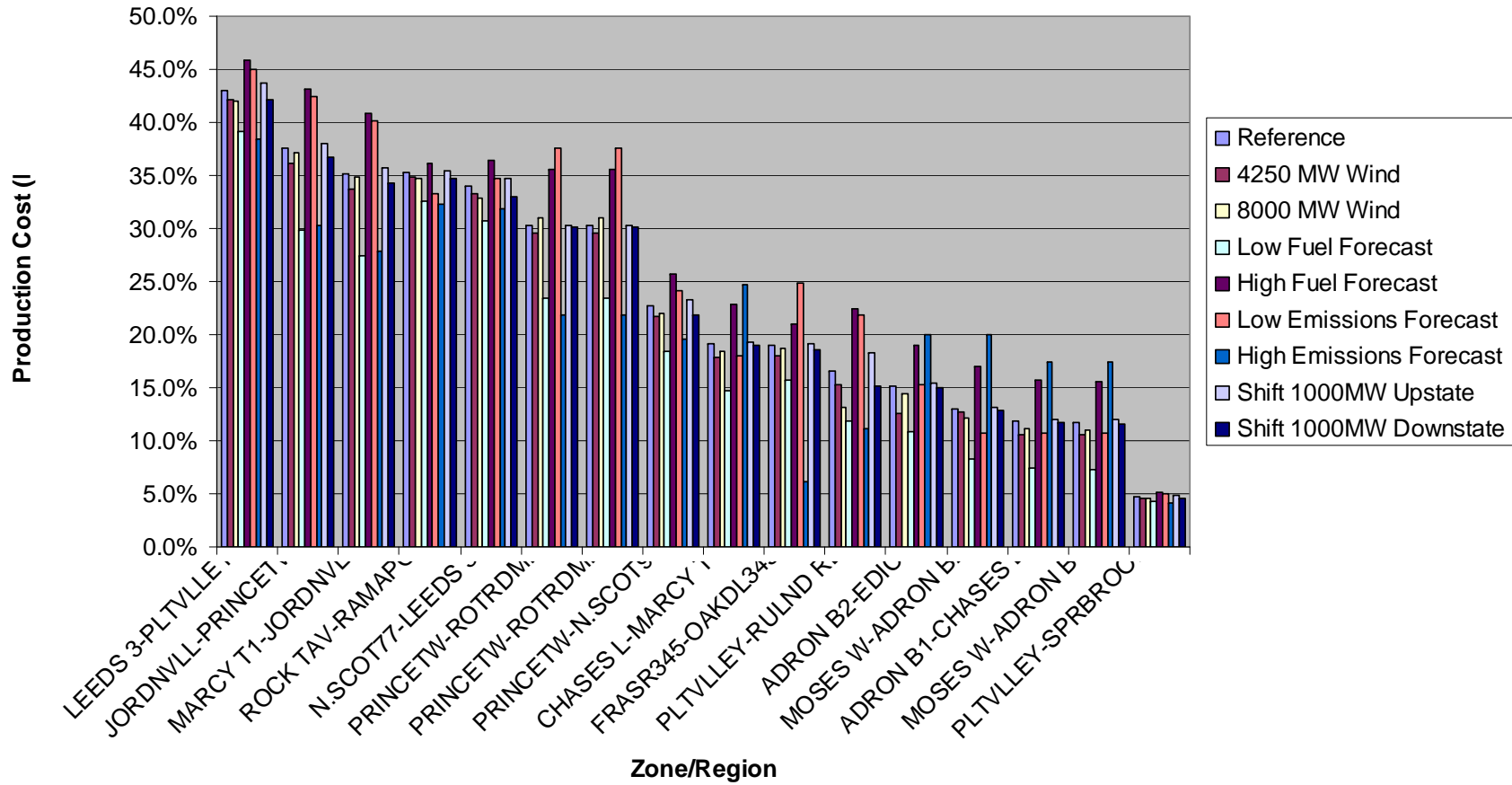
**Reference Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)



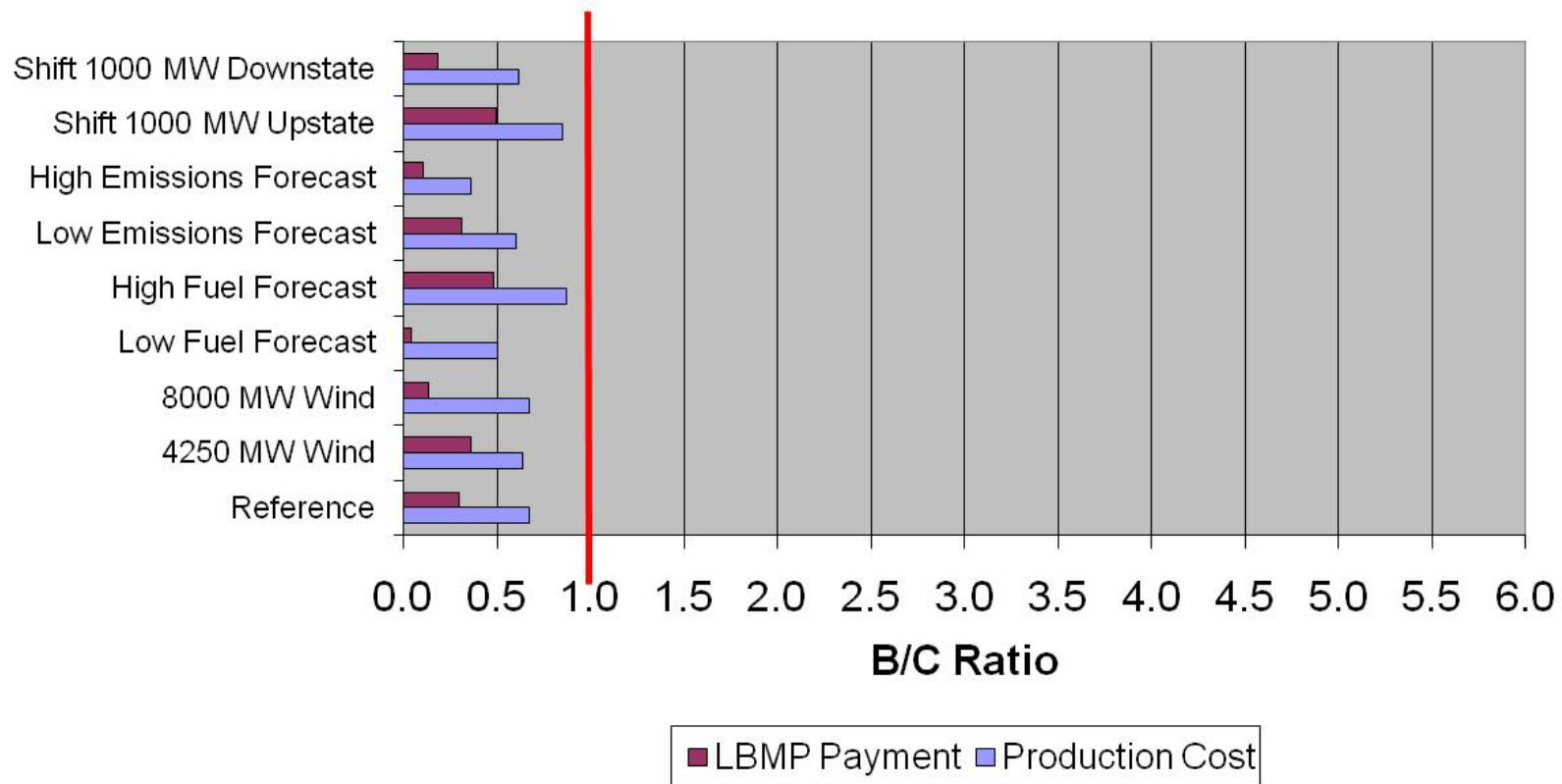
### Reference Case Generation Change Sensitivity Results By Zone Savings Due to BTP (BTP -RIK)



### Reference Case BTP Line Utilization Sensitivity Results

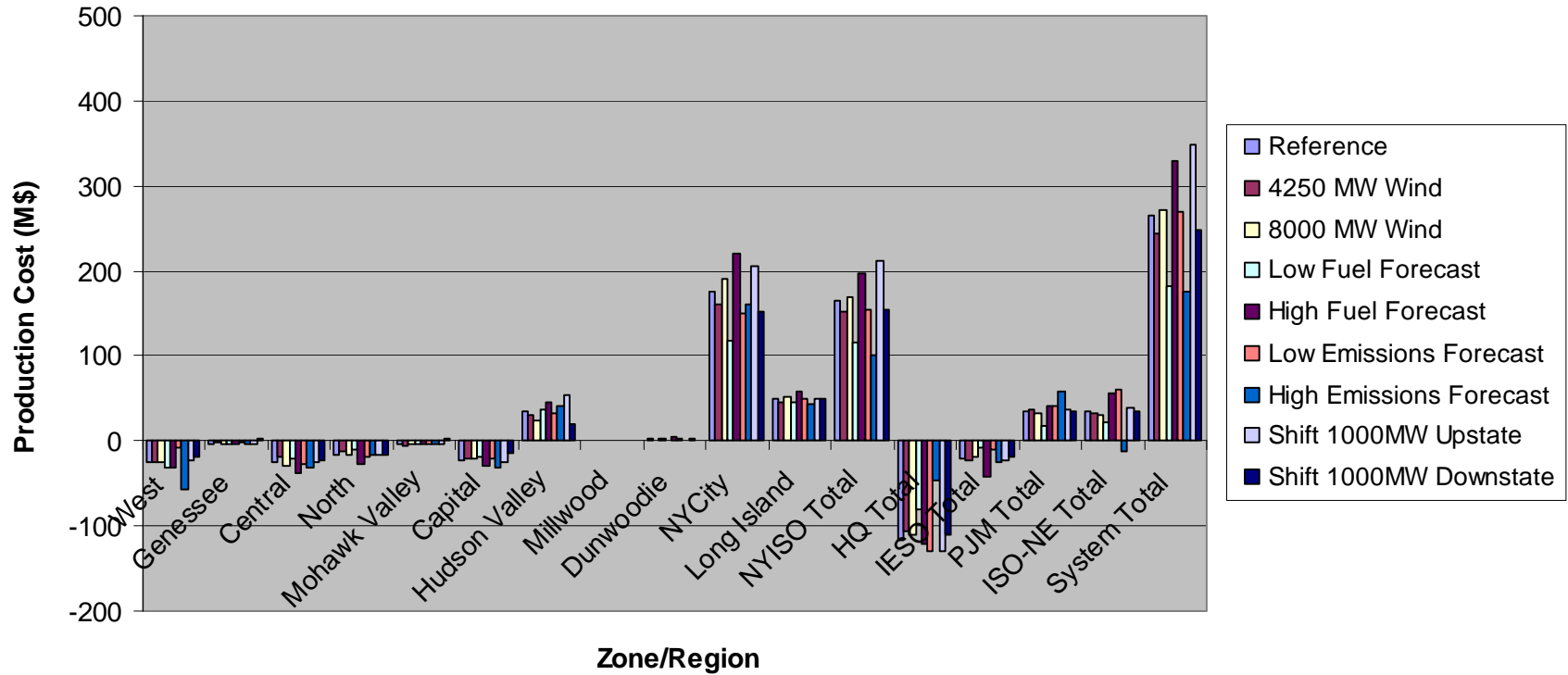


## STARS Sensitivity Analysis - B/C Ratios BTP T3 Case



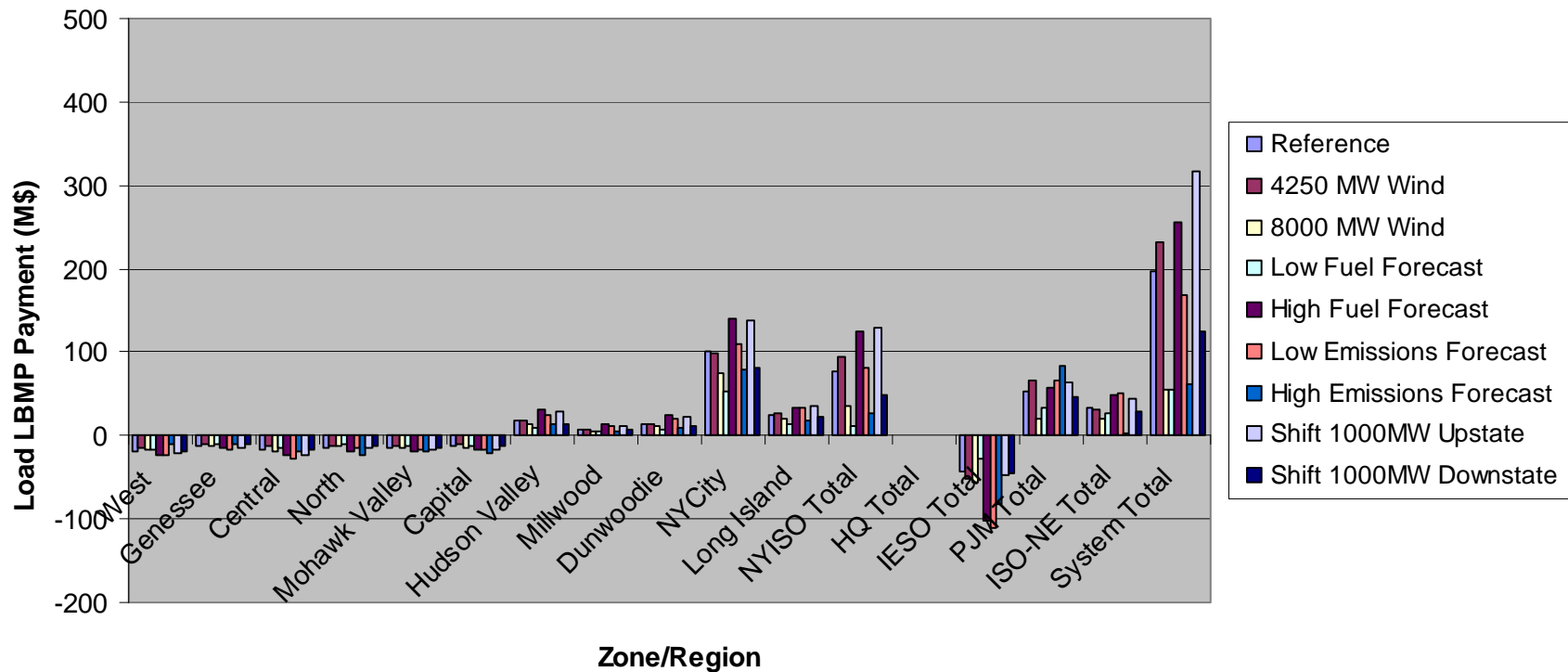
BTP T3 Elements In-Service
Moses-Marcy Moses-Edic
Oakdale-Fraser
Marcy-Jordanville-Princetown-New Scotland
Rock Tavern-Ramapo
New Scotland-Leeds
Leeds-Pleasant Valley

**BTP T3 Case Production Cost Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

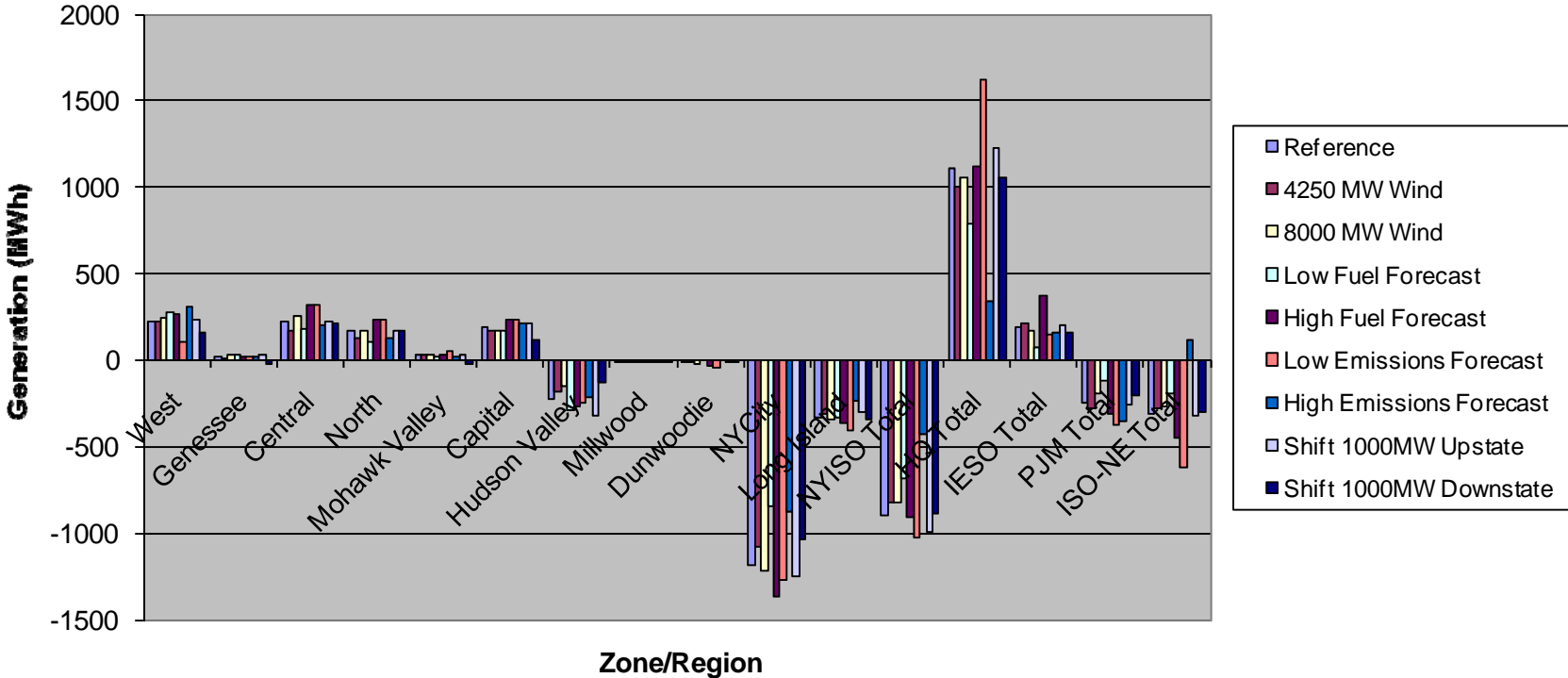


### BTP T3 Case Load LBMP Savings Sensitivity Results By Zone

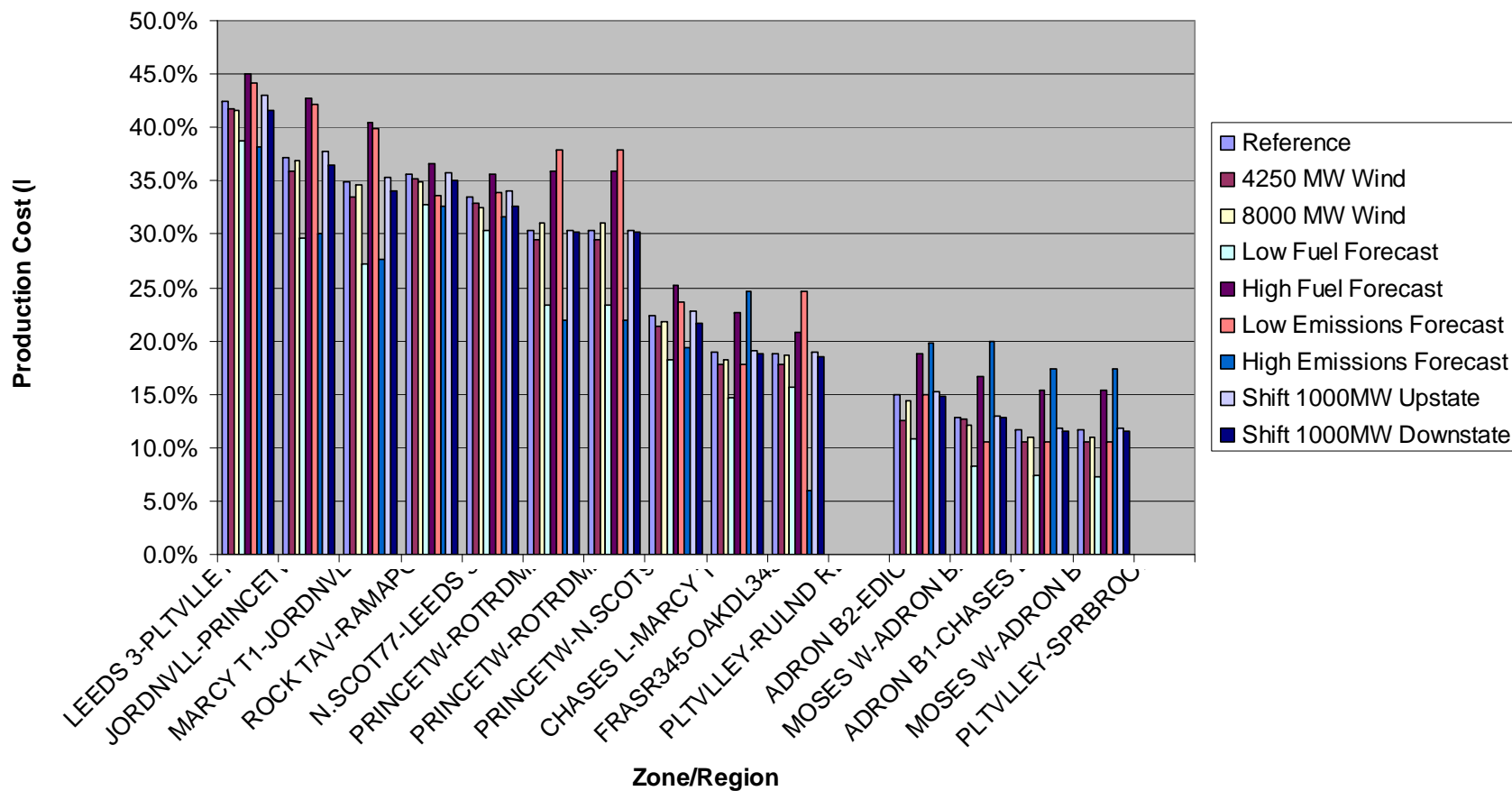
Savings Due to BTP (RIK - BTP)



**BTP T3 Case Generation Change Sensivity Results By Zone**  
Savings Due to BTP (BTP -RIK)

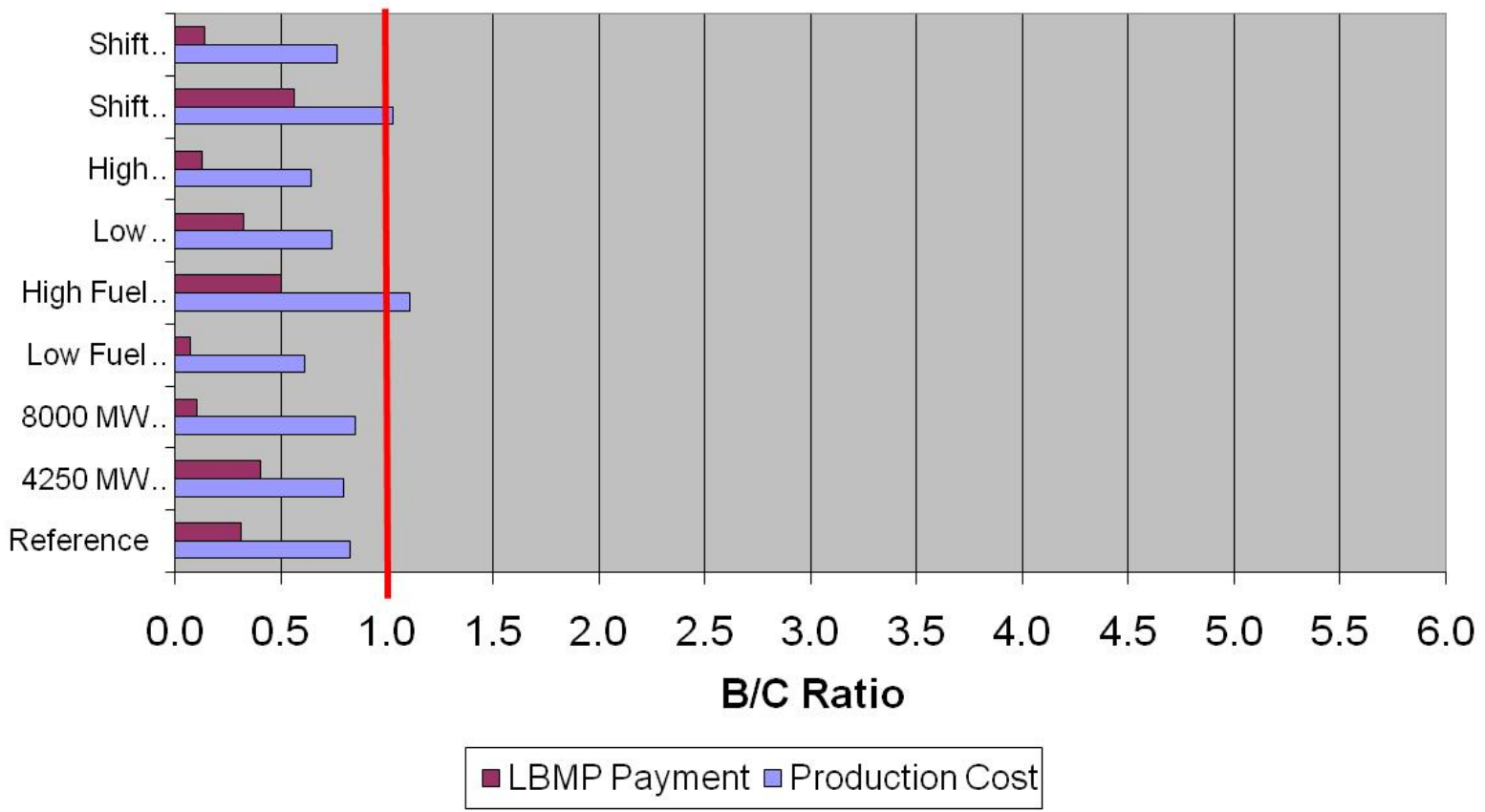


### T3 Case BTP Line Utilization Sensitivity Results





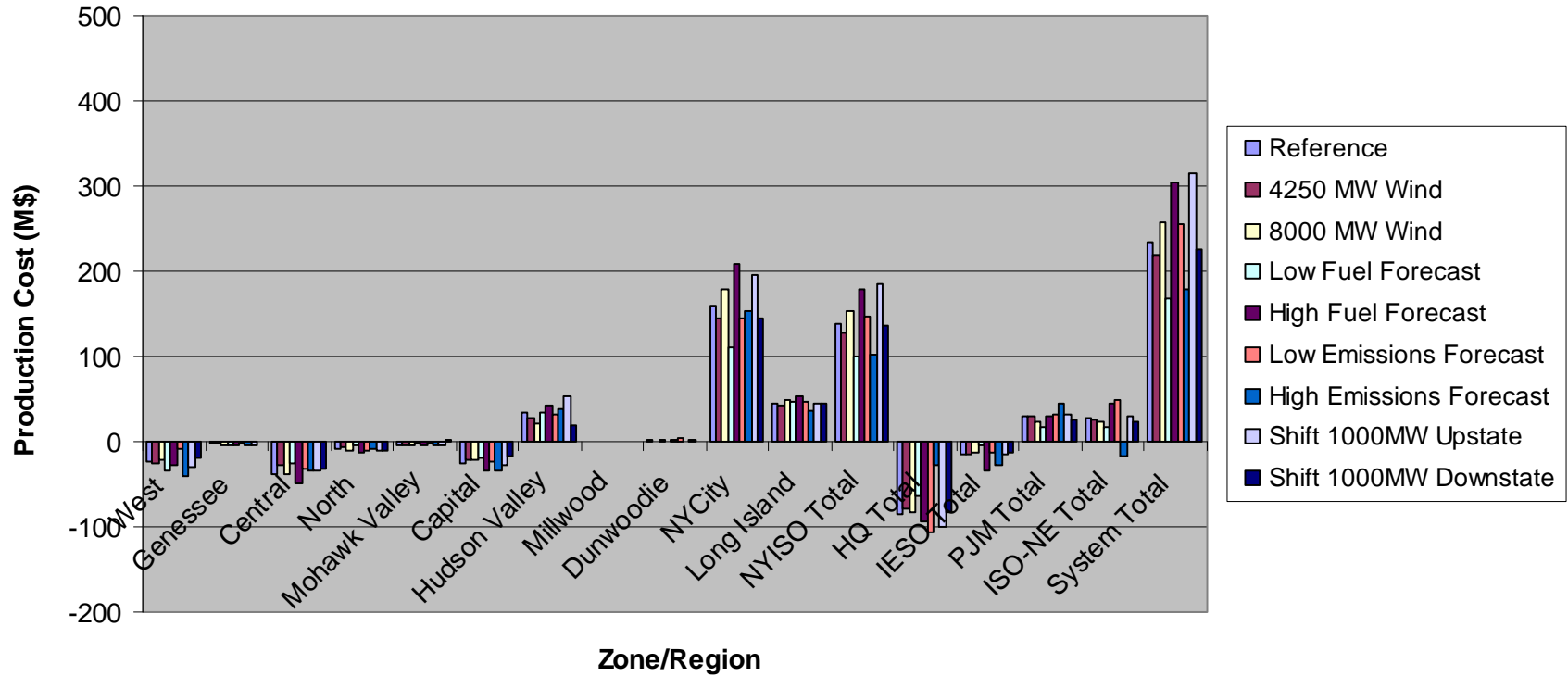
### STARS Sensitivity Analysis - B/C Ratios BTP T4 Case



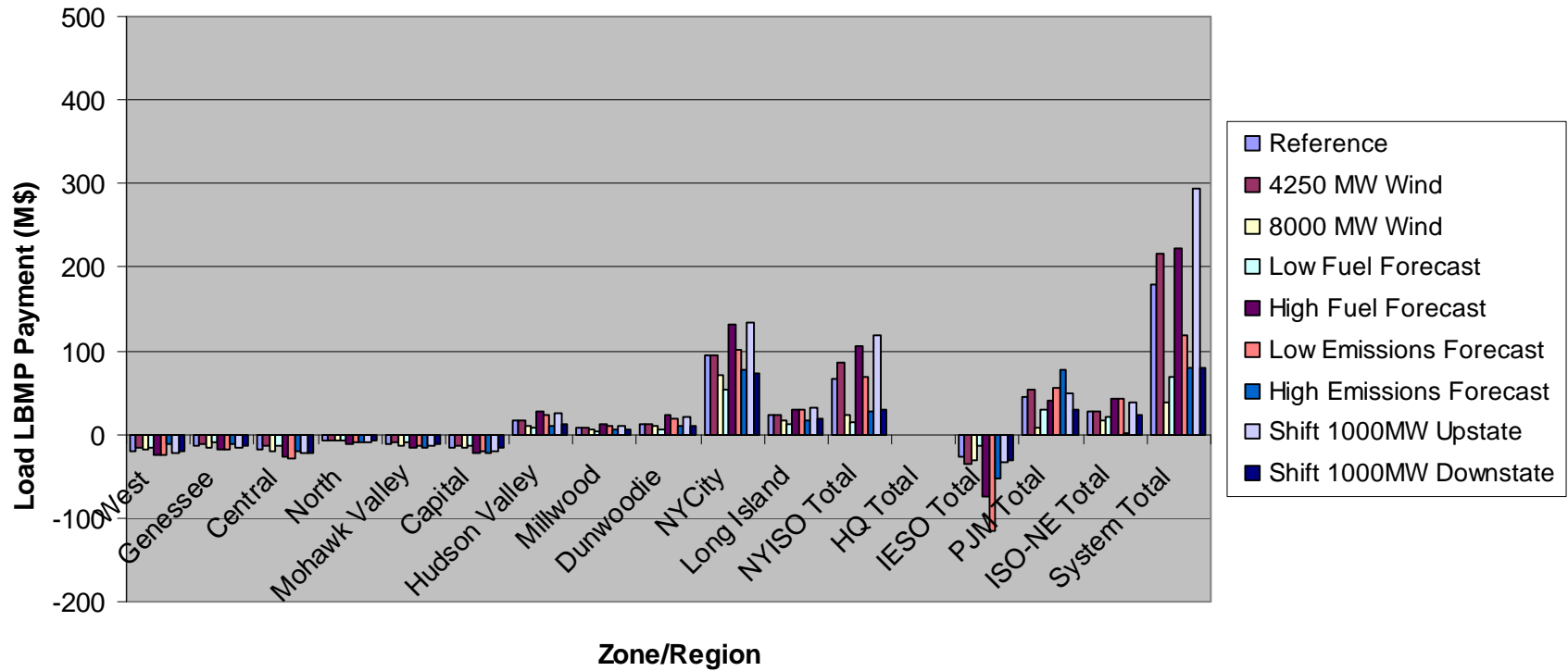
BTP T4 Elements In-Service
Oakdale-Fraser
Marcy-Jordanville-Princetown-New Scotland
Rock Tavern-Ramapo
New Scotland-Leeds
Leeds-Pleasant Valley

### BTP T4 Case Production Cost Savings Sensitivity Results By Zone

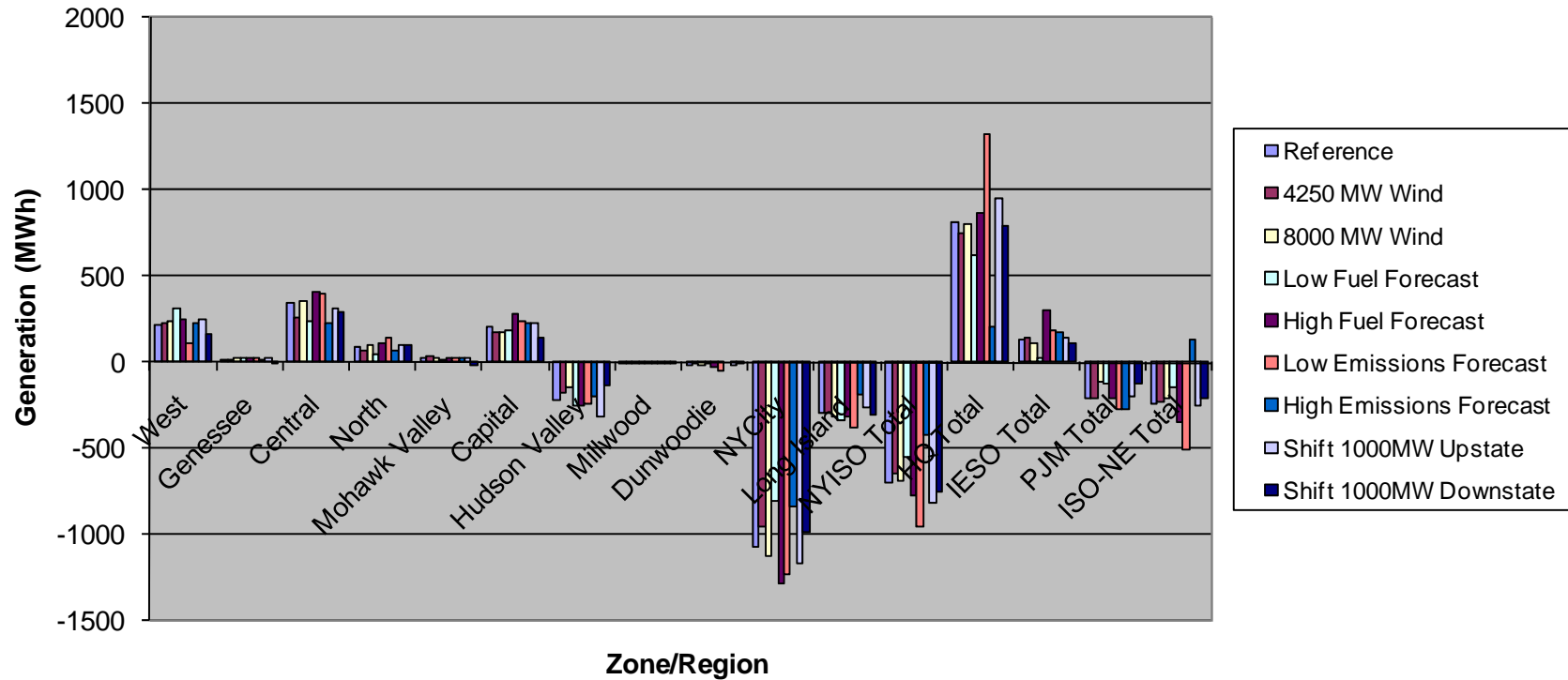
Savings Due to BTP (RIK - BTP)



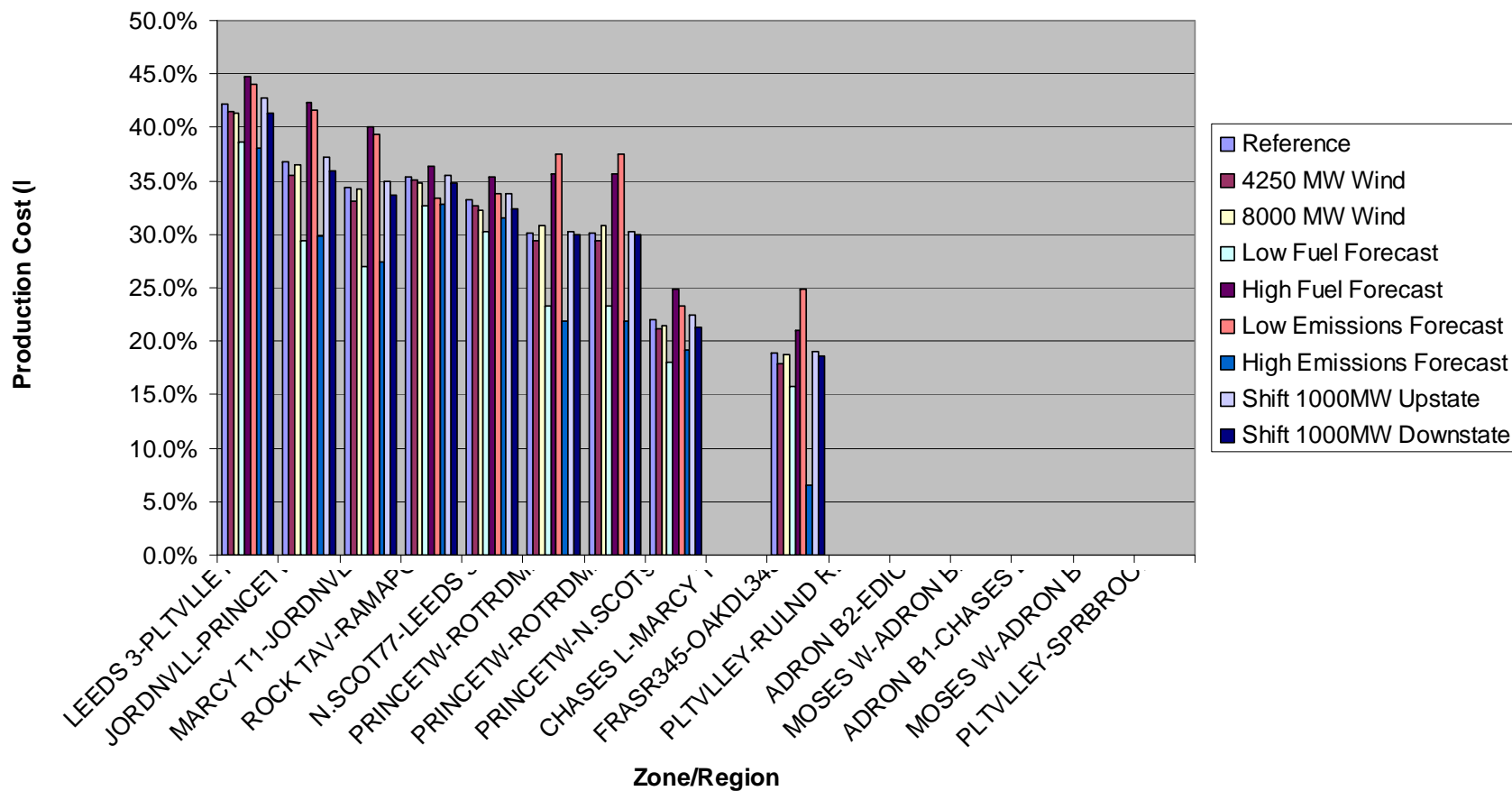
**BTP T4 Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)



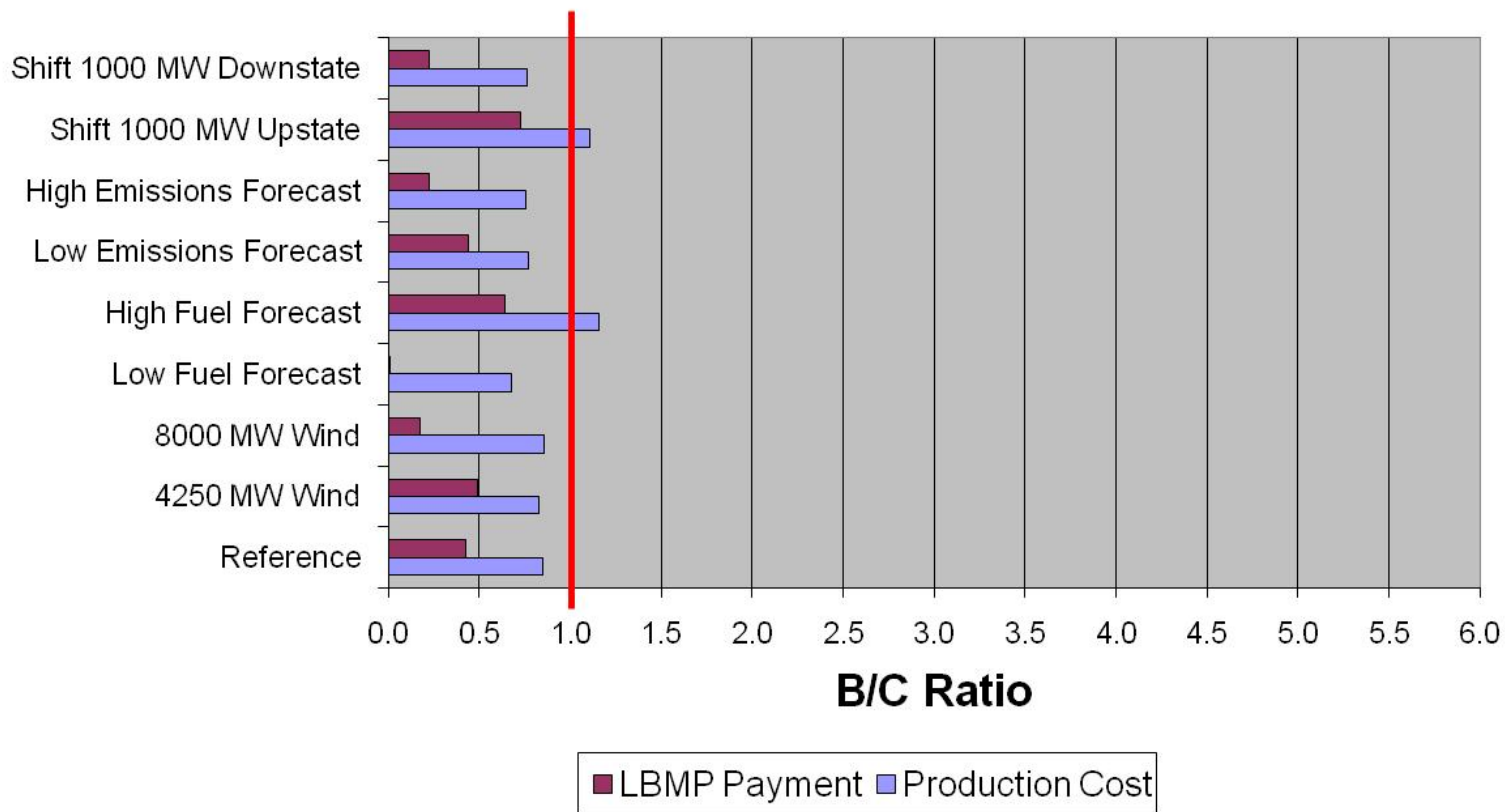
**BTP T4 Case Generation Change Sensitivity Results By Zone**  
Savings Due to BTP (BTP -RIK)



### T4 Case BTP Line Utilization Sensitivity Results

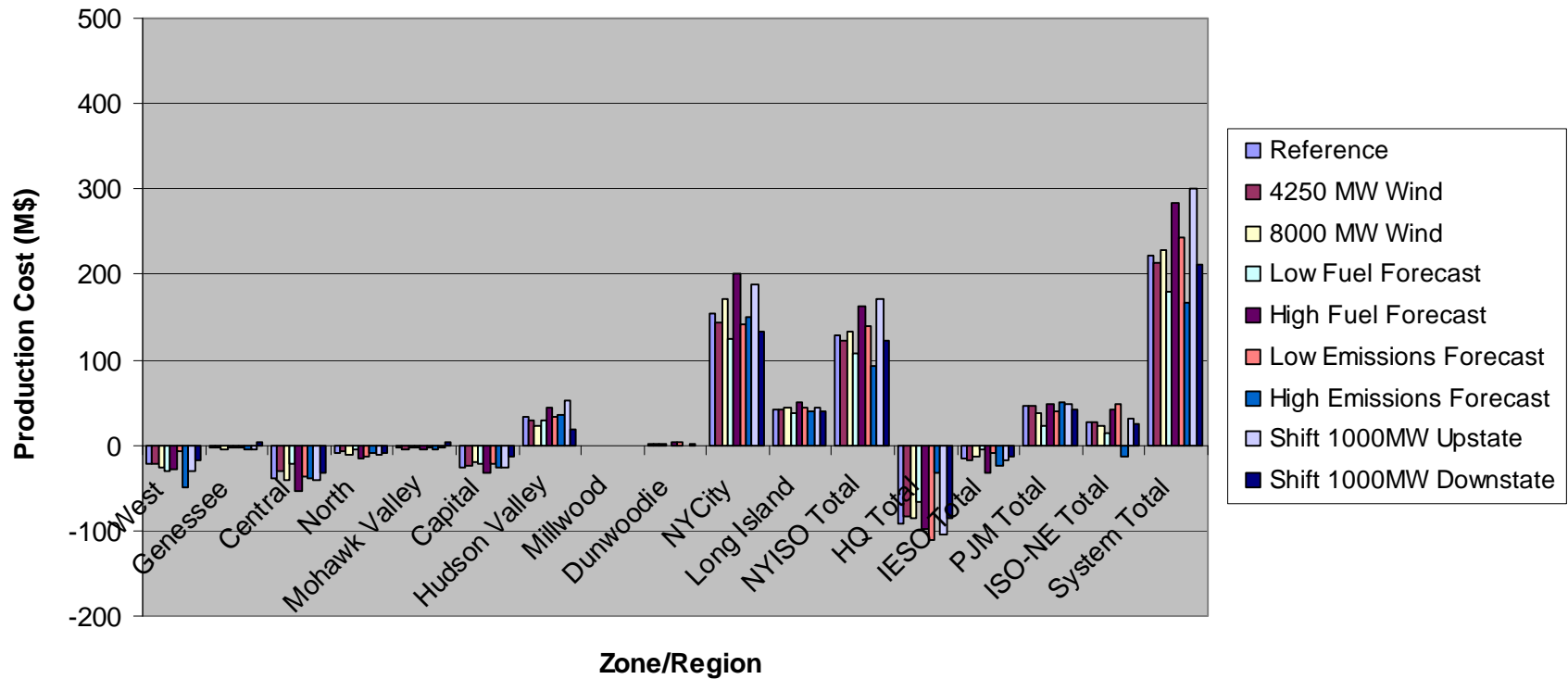


### STARS Sensitivity Analysis - B/C Ratios BTP T6 Case

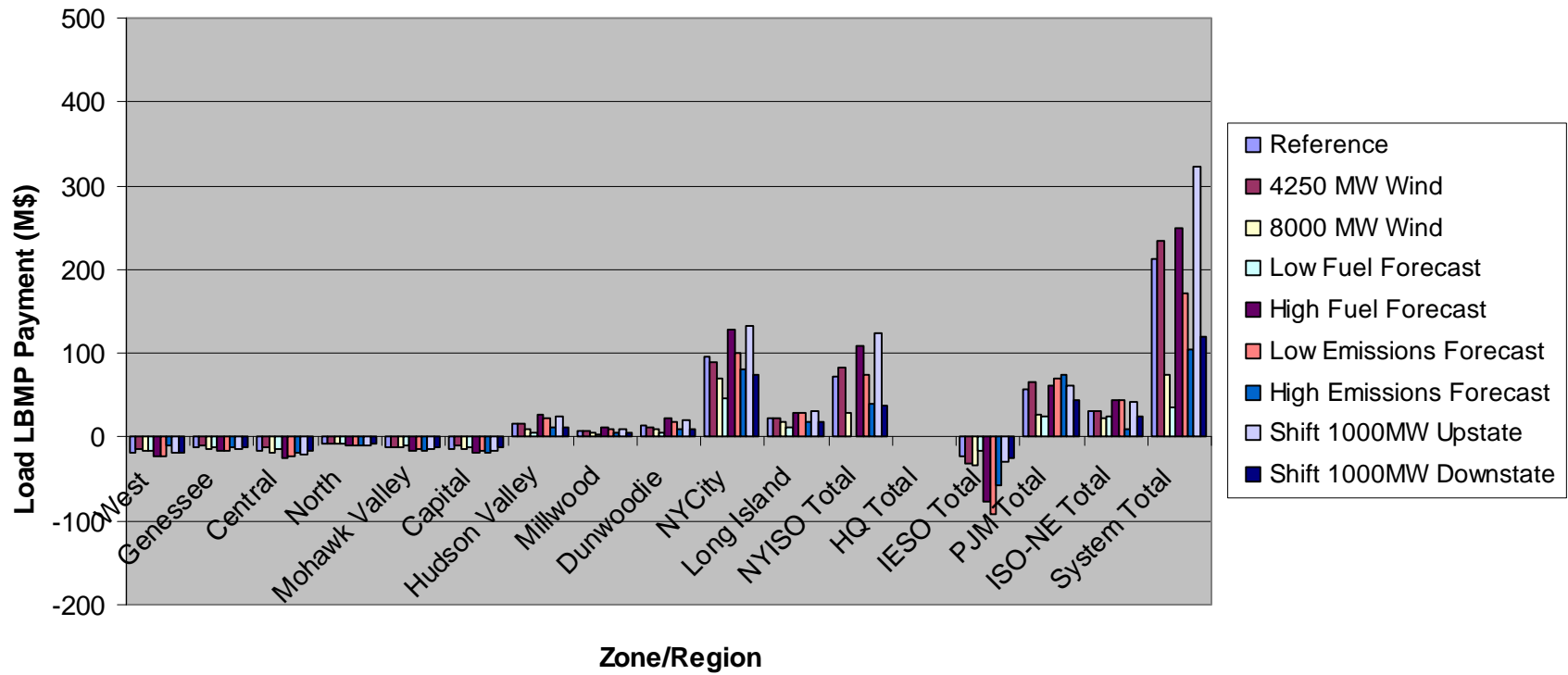


<b>BTP T6 Elements In-Service</b>
Marcy-Jordanville-Princetown-New Scotland
Rock Tavern-Ramapo
New Scotland-Leeds
Leeds-Pleasant Valley

**BTP T6 Case Production Cost Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

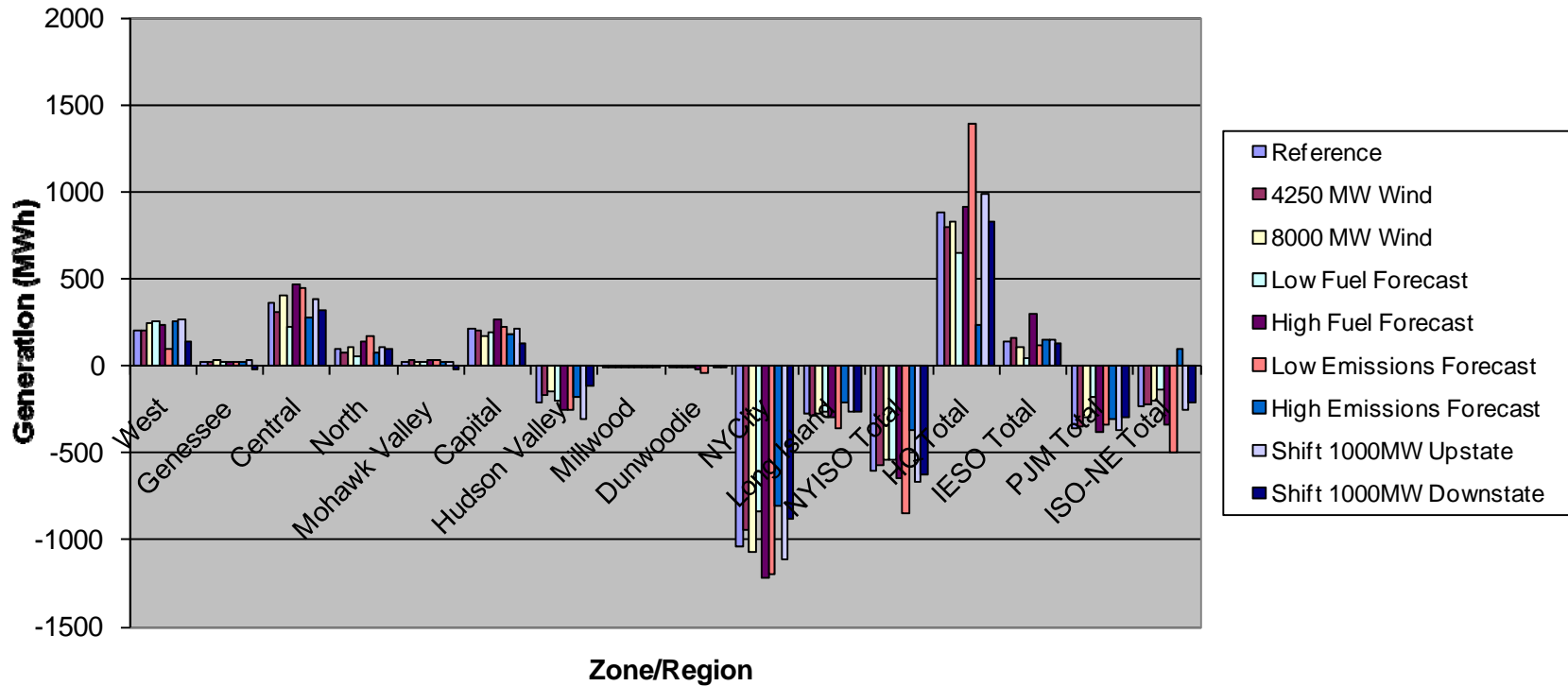


**BTP T6 Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

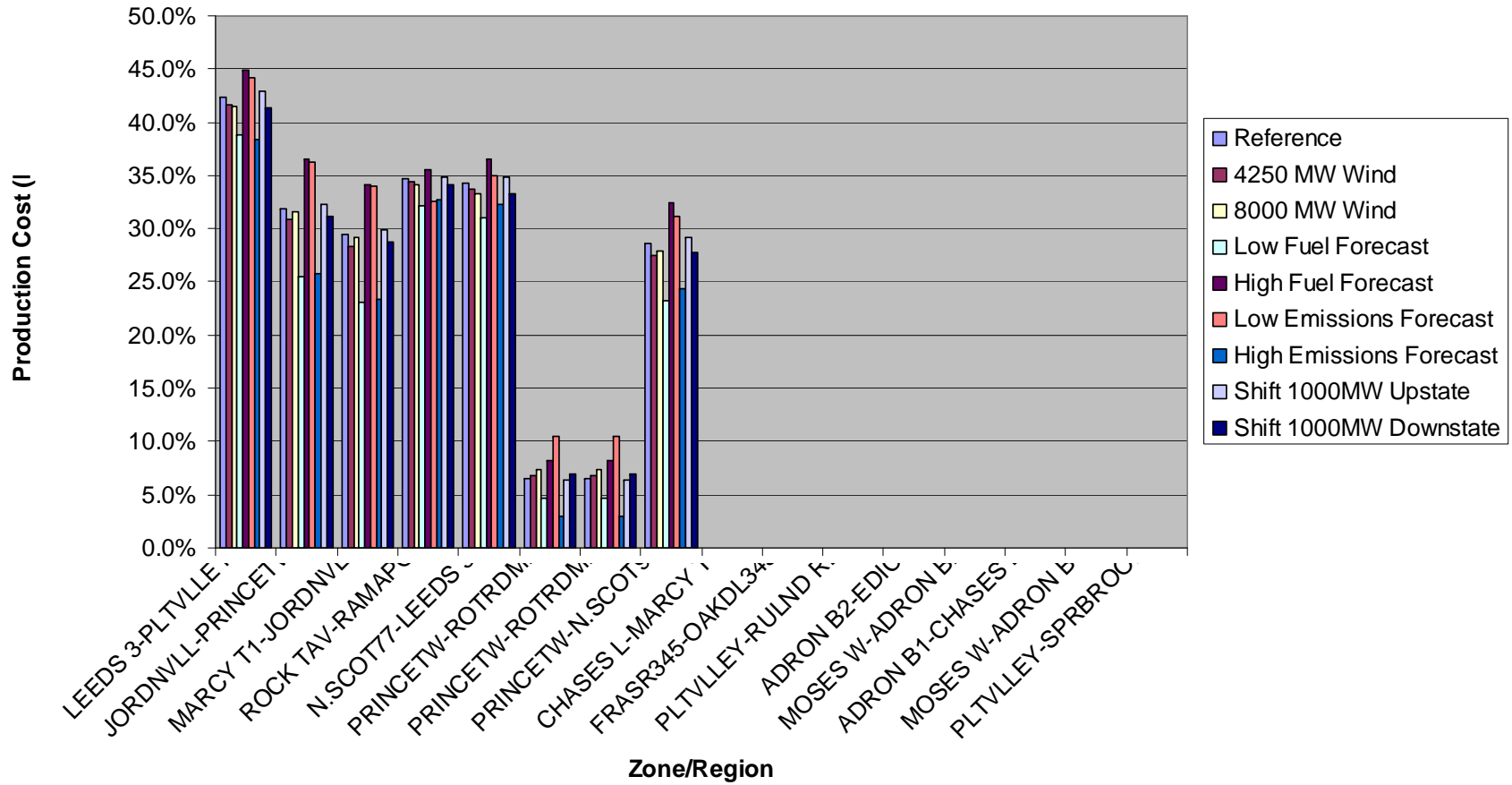




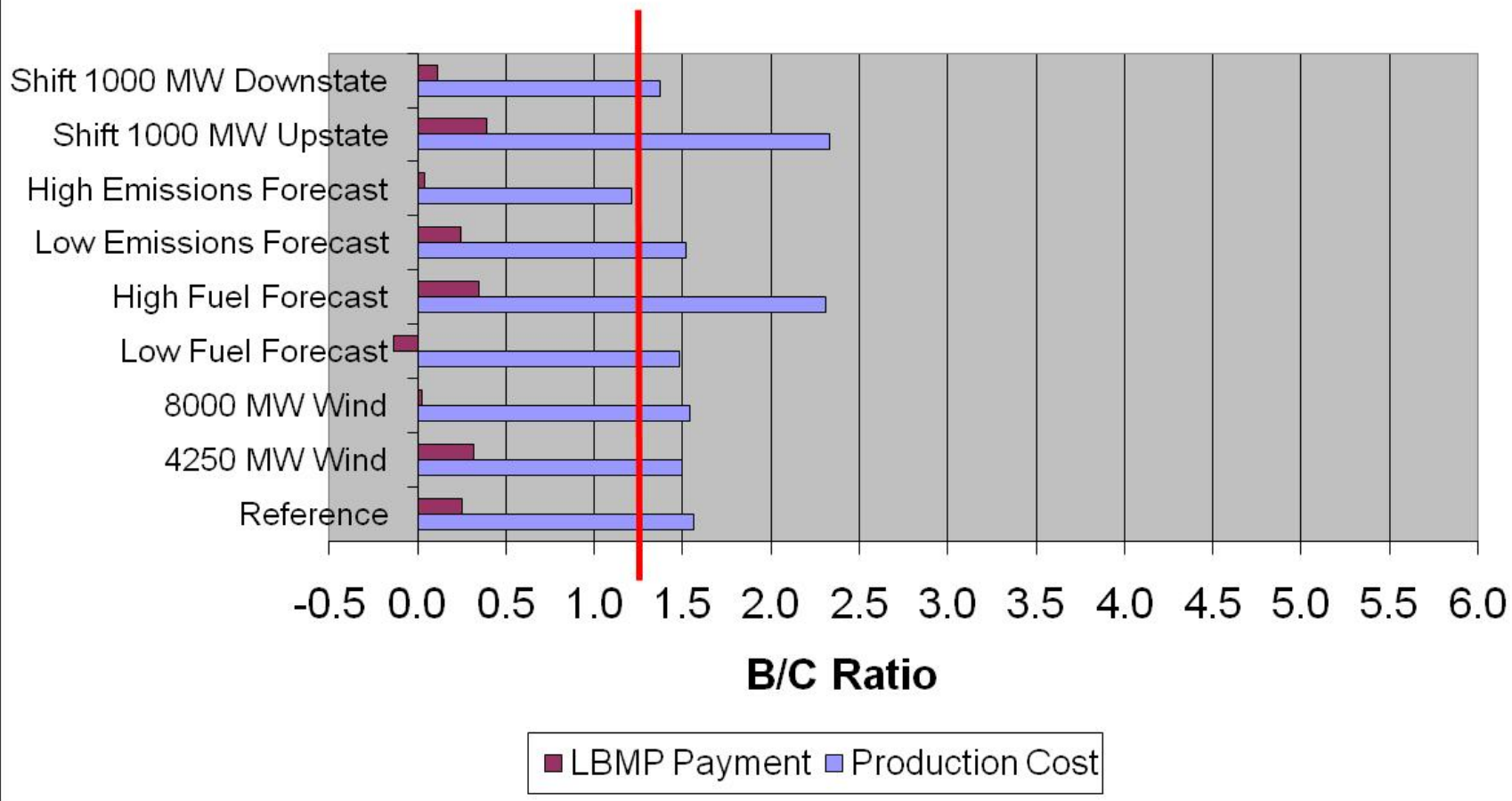
**BTP T6 Case Generation Change Sensitivity Results By Zone**  
Savings Due to BTP (BTP -RIK)



### T6 Case BTP Line Utilization Sensitivity Results

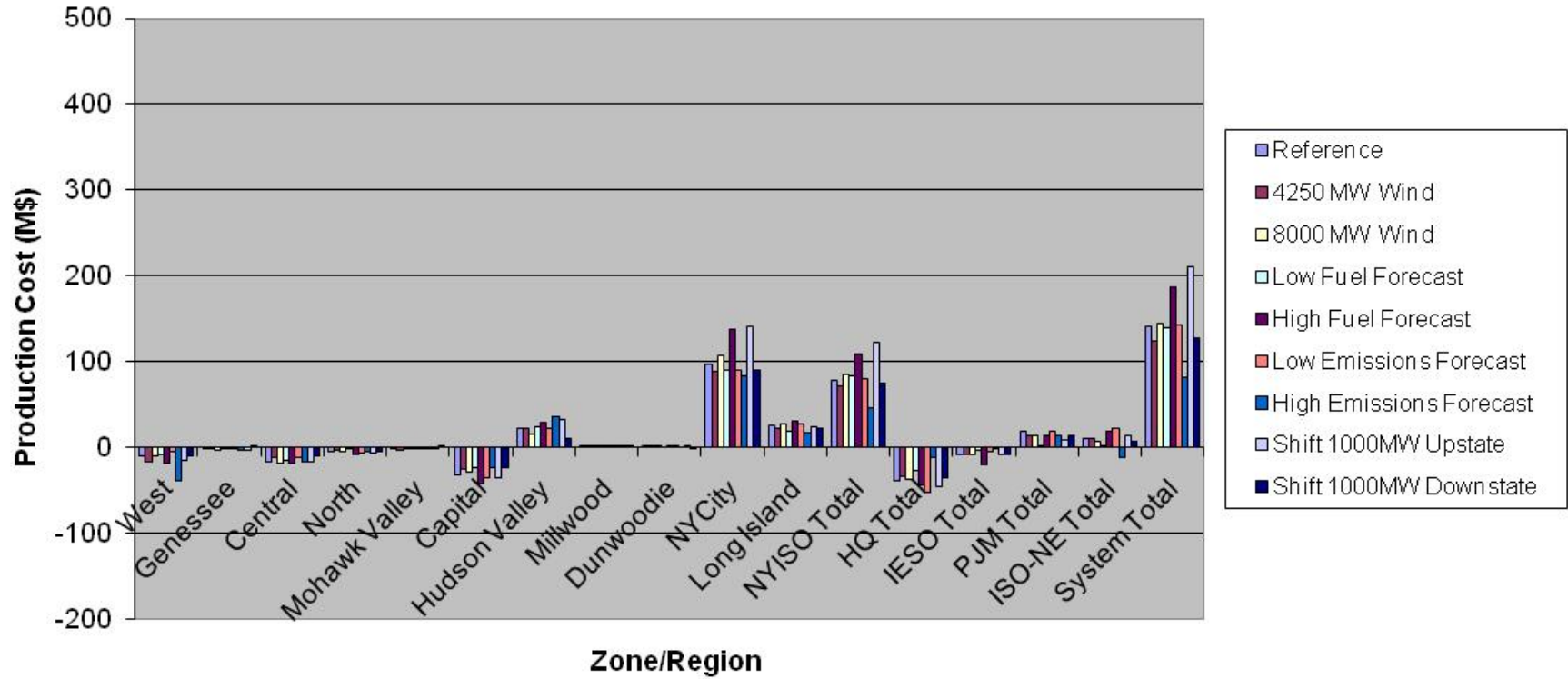


## STARS Sensitivity Analysis - B/C Ratios BTP T9 Case

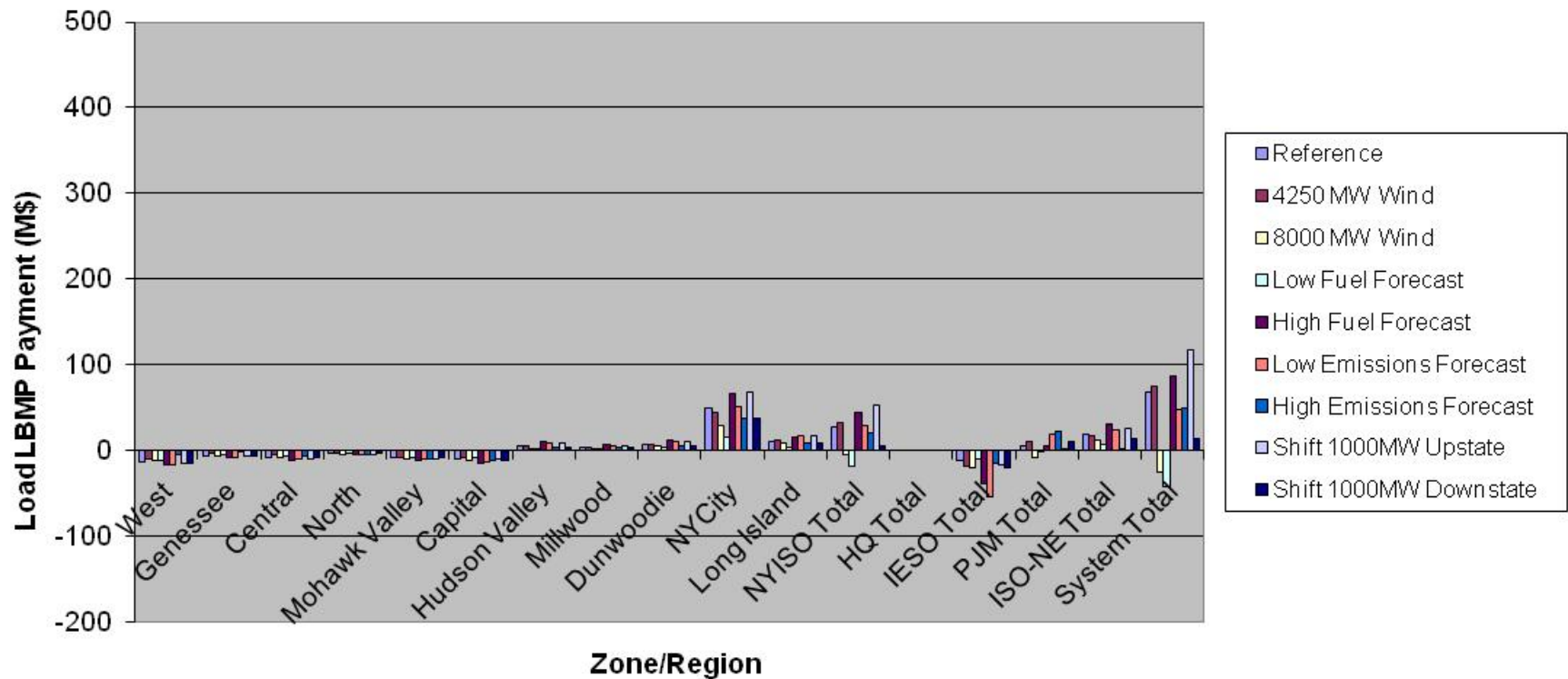


<b>BTP T9 Elements In-Service</b>
Leeds-Pleasant Valley

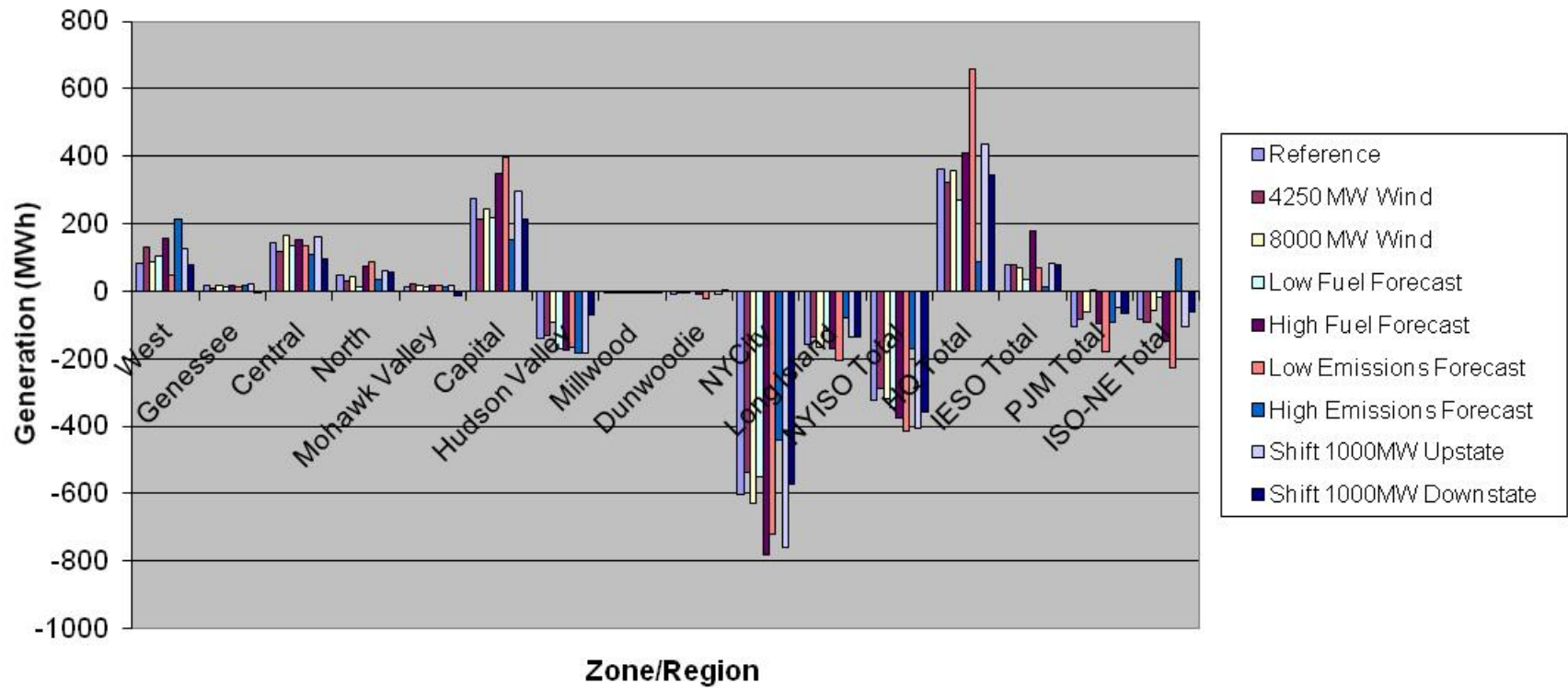
**BTP T9 Case Production Cost Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)



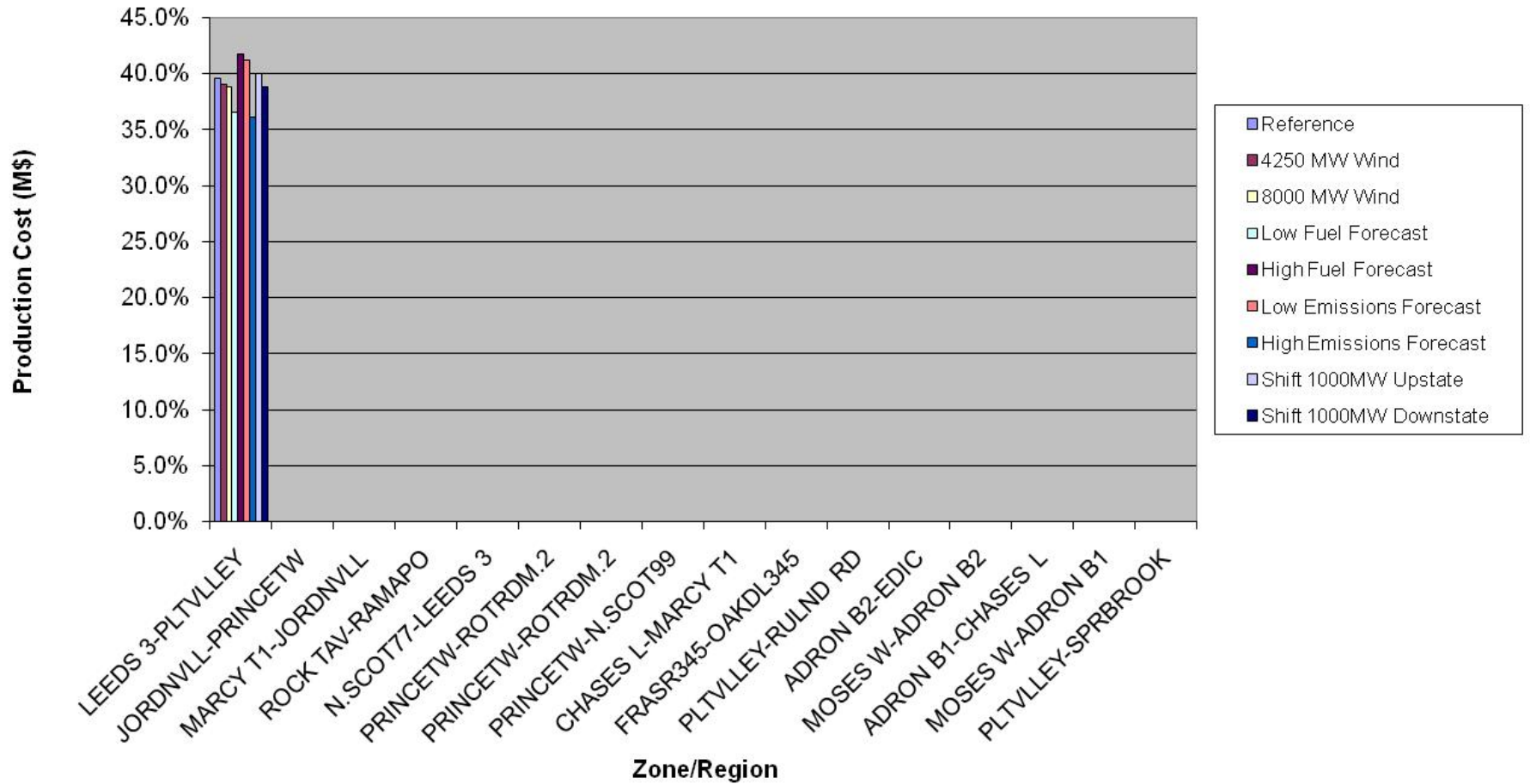
**BTP T9 Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)



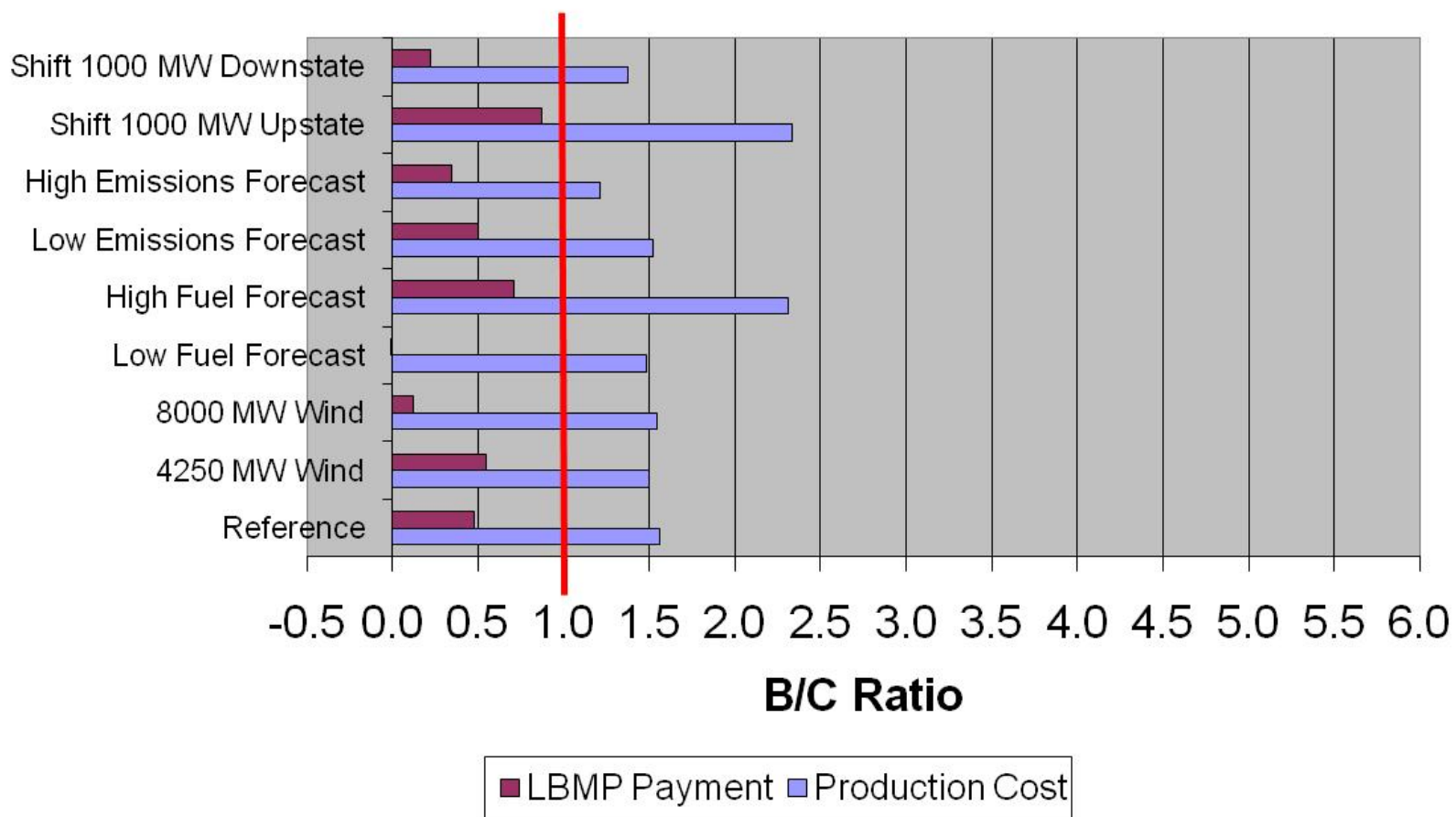
**BTP T9 Case Generation Change Sensitivity Results By Zone**  
Savings Due to BTP (BTP -RIK)



### T9 Case BTP Line Utilization Sensitivity Results



## STARS Sensitivity Analysis - B/C Ratios BTP T12 Case

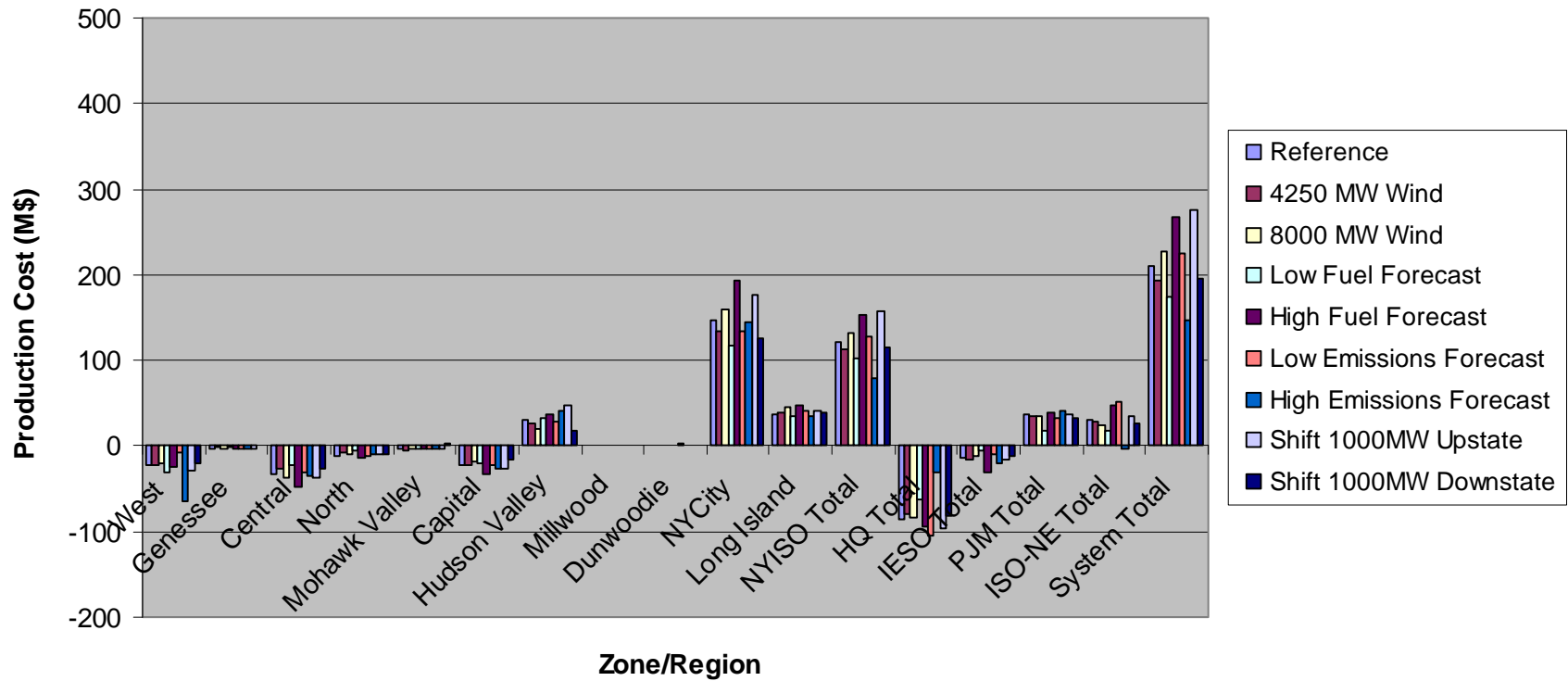


BTP T12 Elements In-Service
Marcy-Jordanville-Princetown-New Scotland
New Scotland-Leeds
Leeds-Pleasant Valley

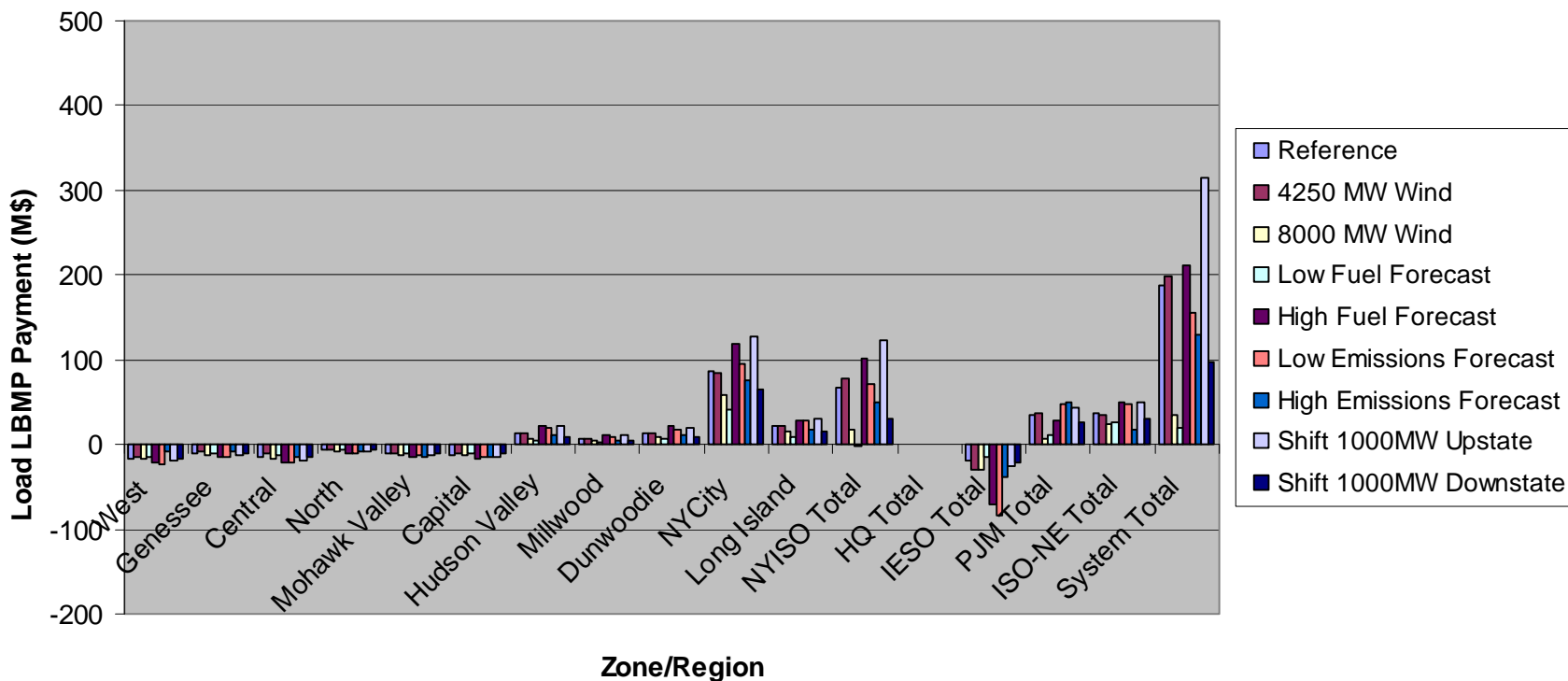


### BTP T12 Case Production Cost Savings Sensivity Results By Zone

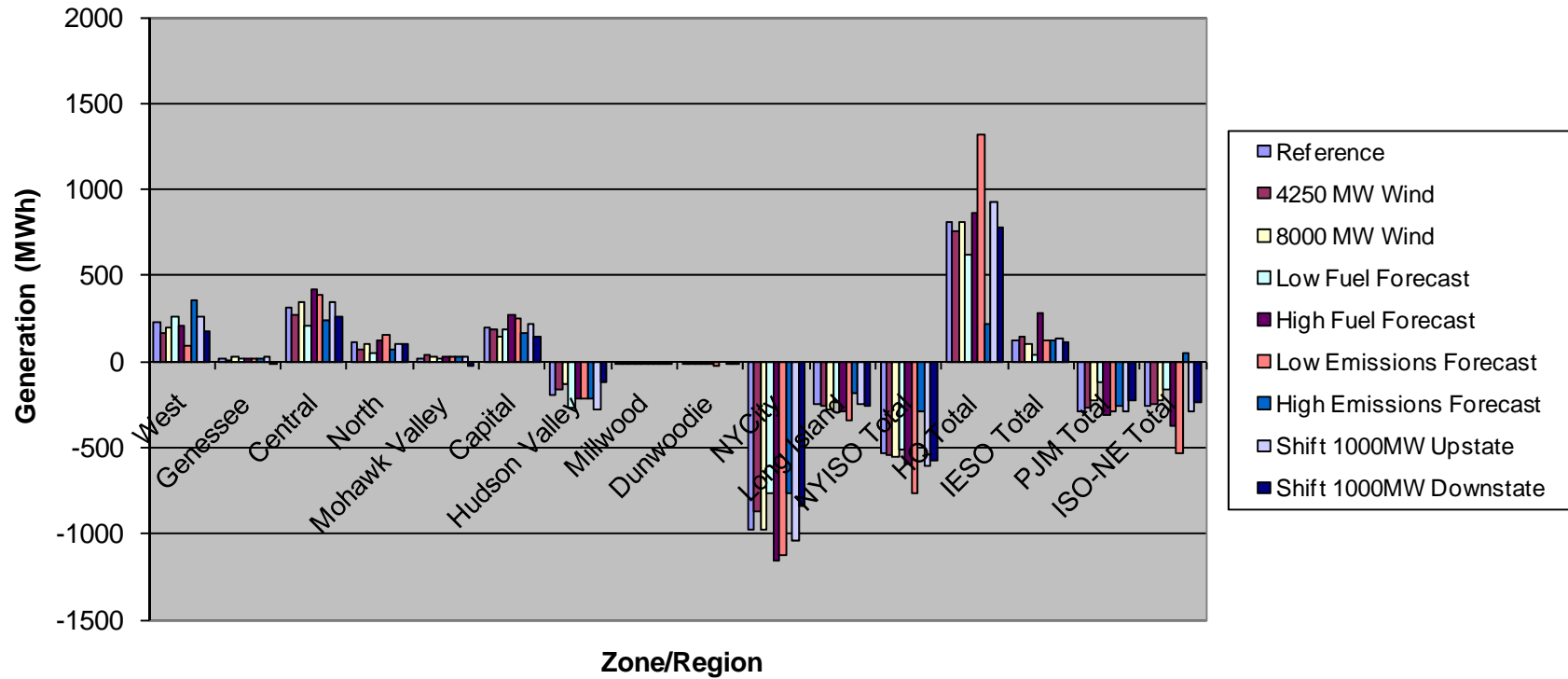
Savings Due to BTP (RIK - BTP)



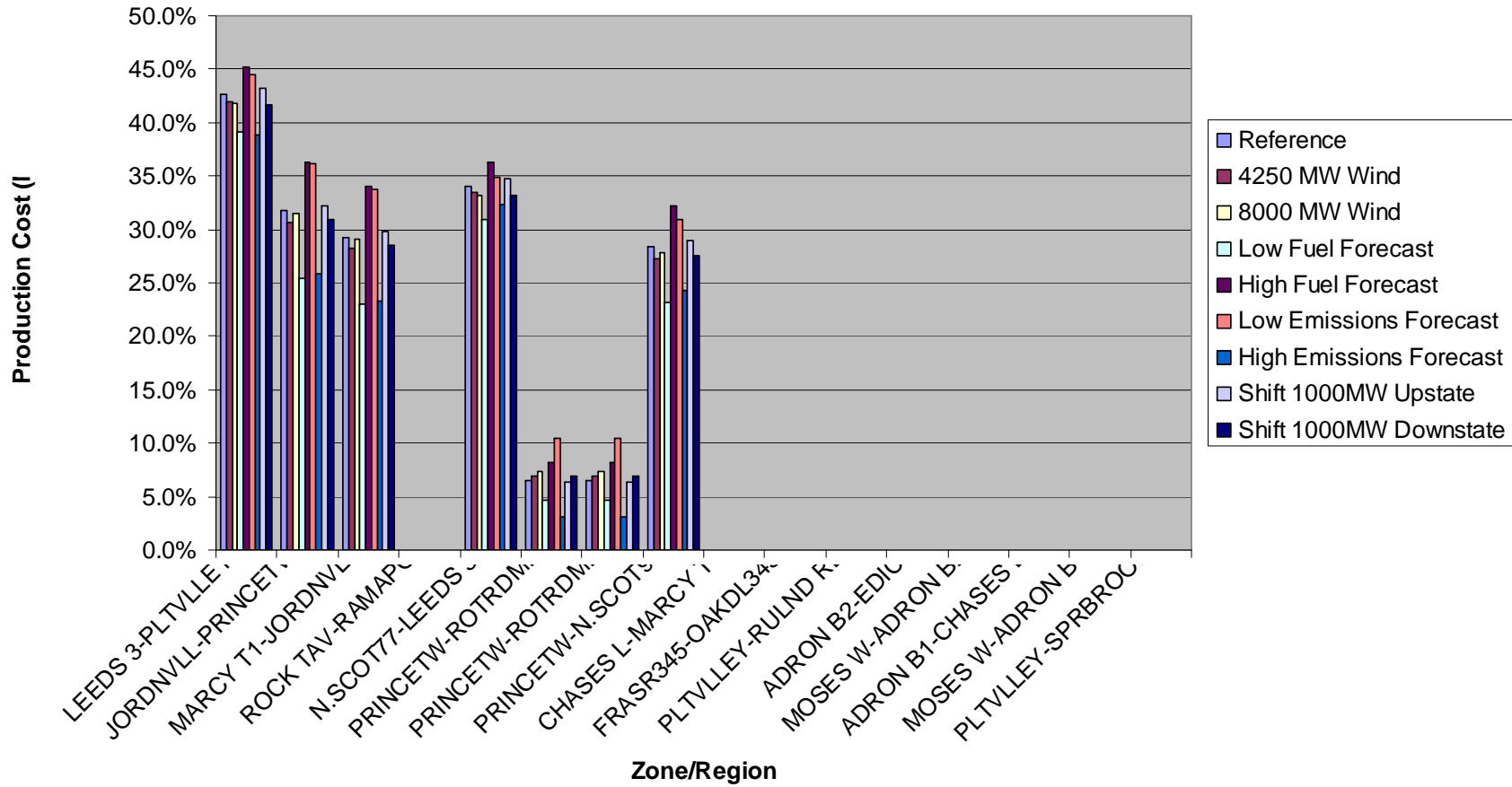
**BTP T12 Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

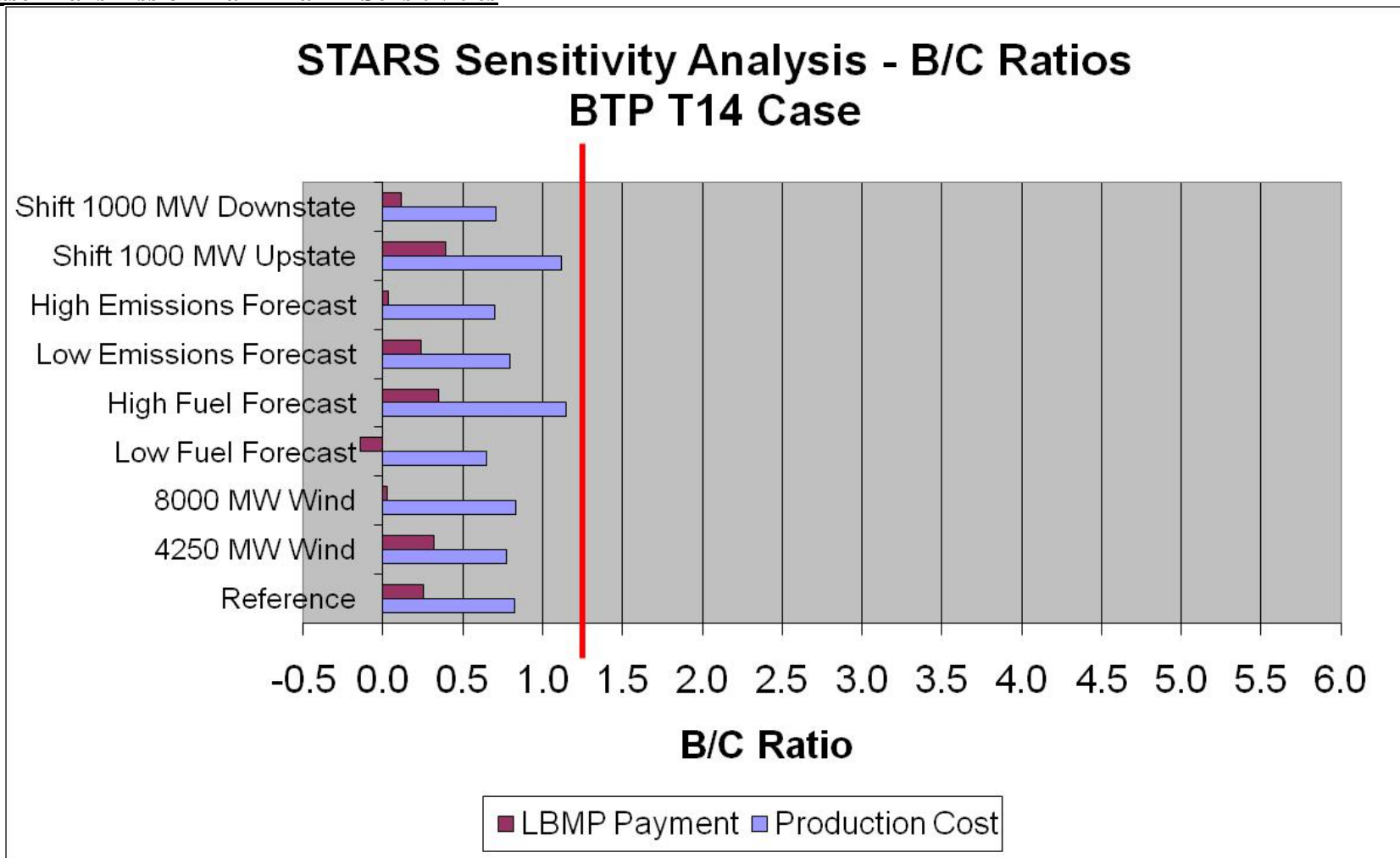


**BTP T12 Case Generation Change Sensitivity Results By Zone**  
Savings Due to BTP (BTP -RIK)



### T12 Case BTP Line Utilization Sensitivity Results

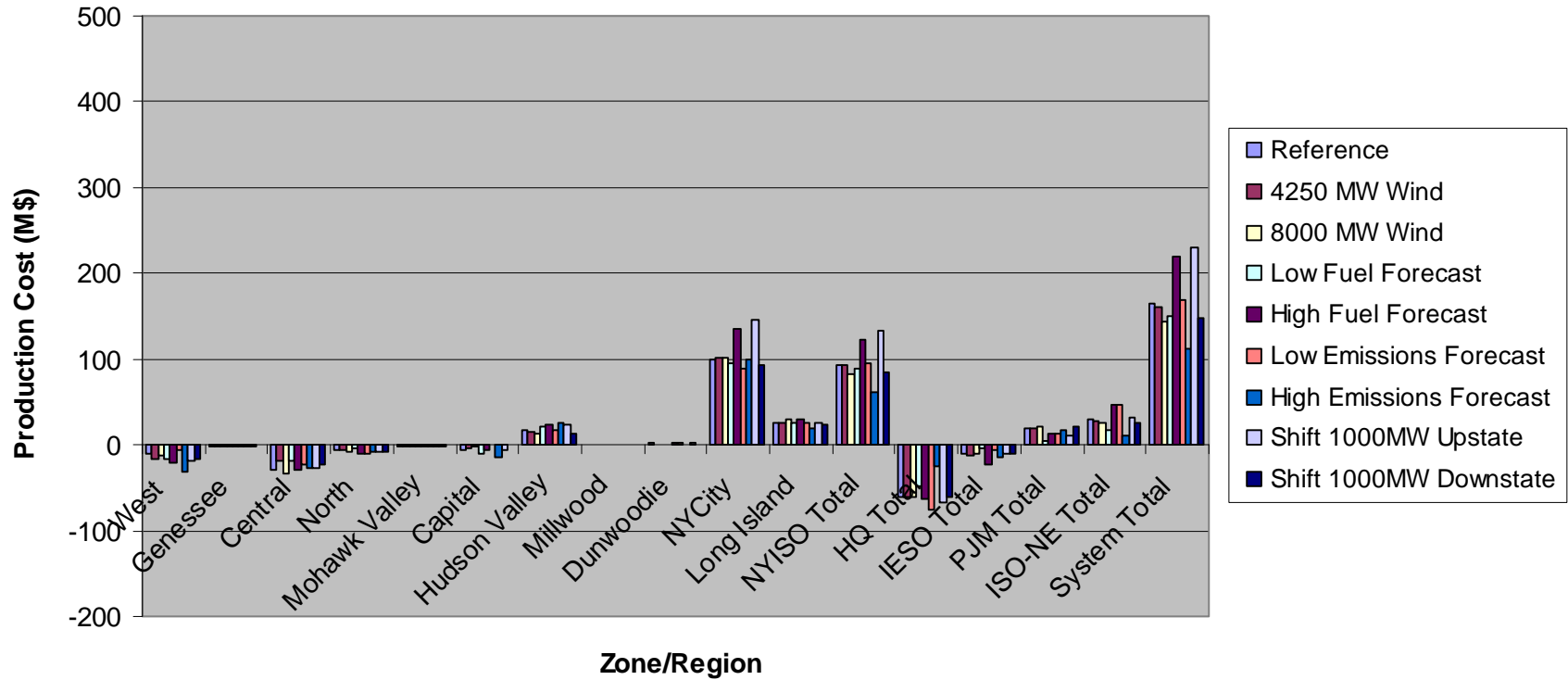




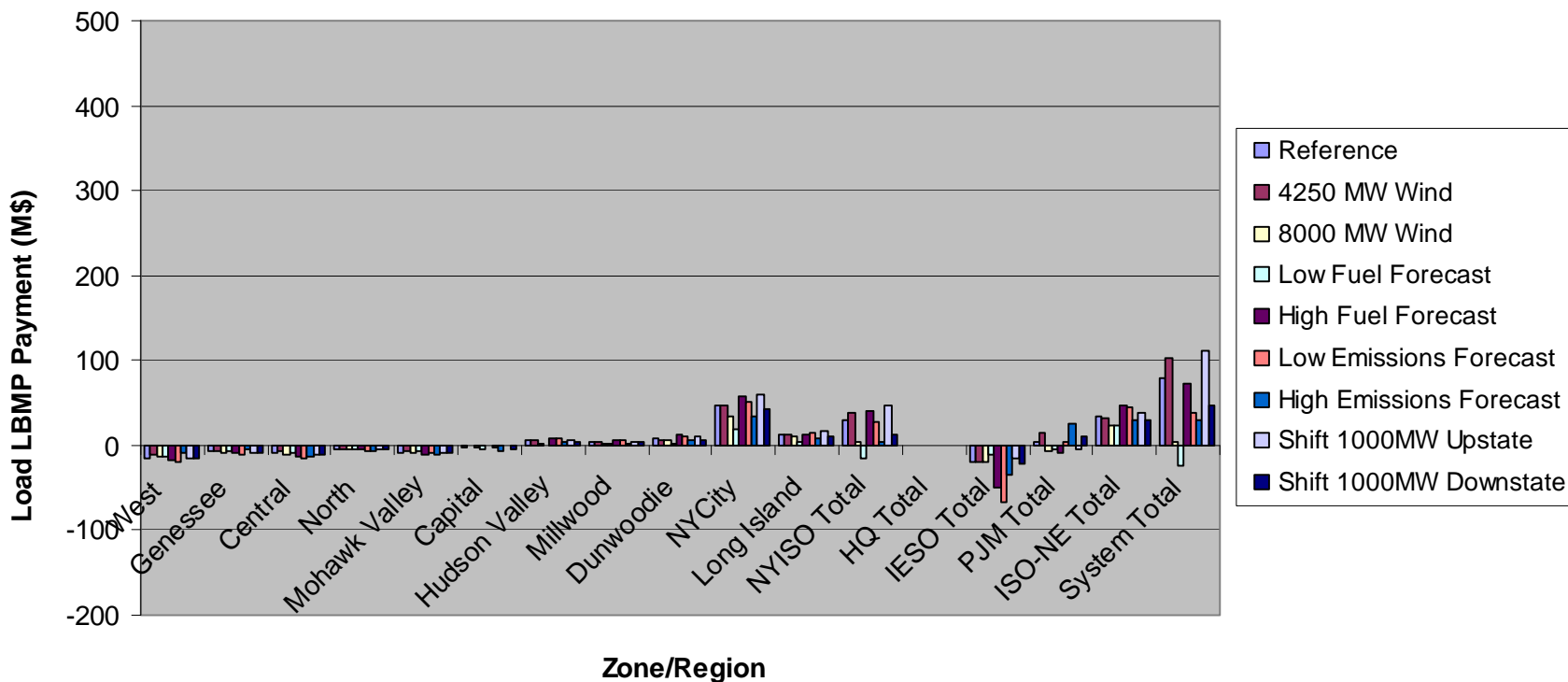
<b>BTP T14 Elements In-Service</b>
Marcy-Jordanville-Princetown-New Scotland
Leeds-Pleasant Valley

### BTP T14 Case Production Cost Savings Sensitivity Results By Zone

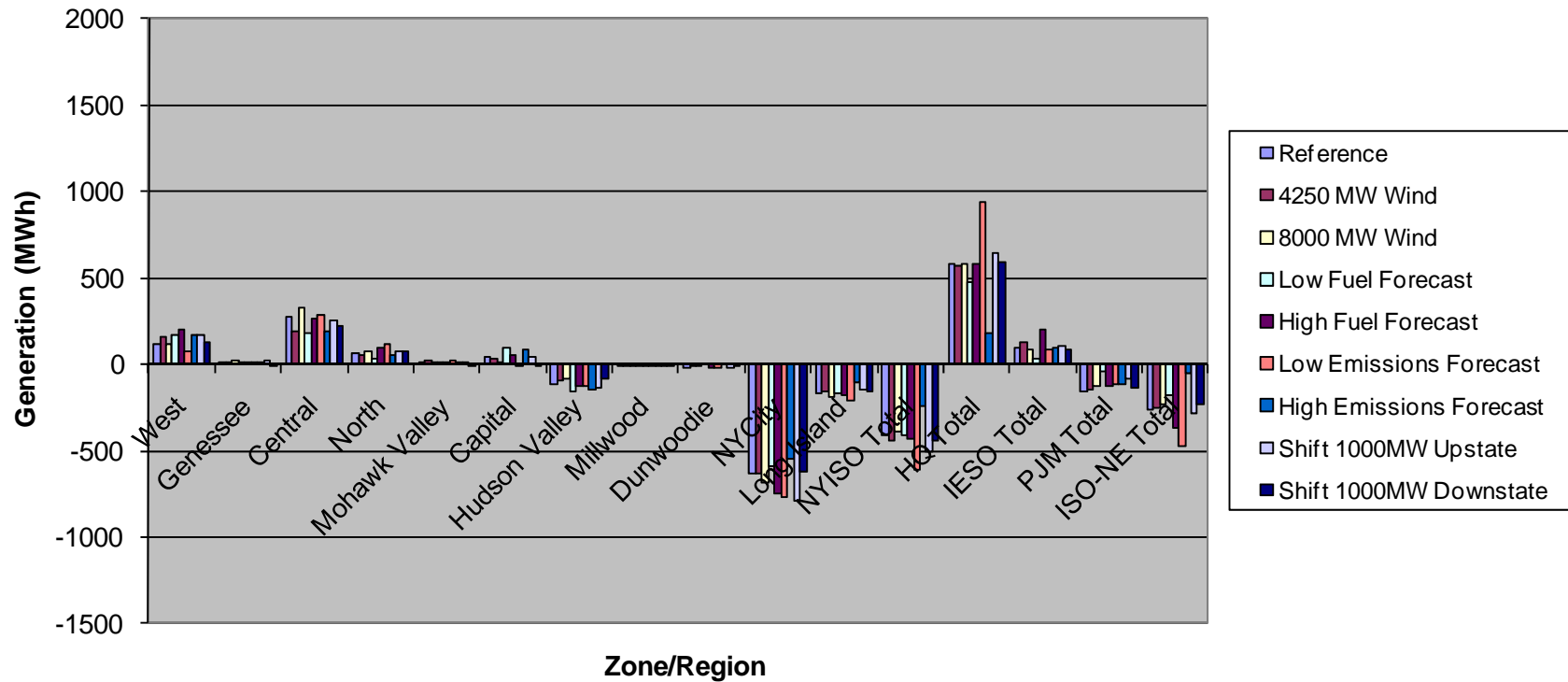
Savings Due to BTP (RIK - BTP)



**BTP T14 Case Load LBMP Savings Sensitivity Results By Zone**  
Savings Due to BTP (RIK - BTP)

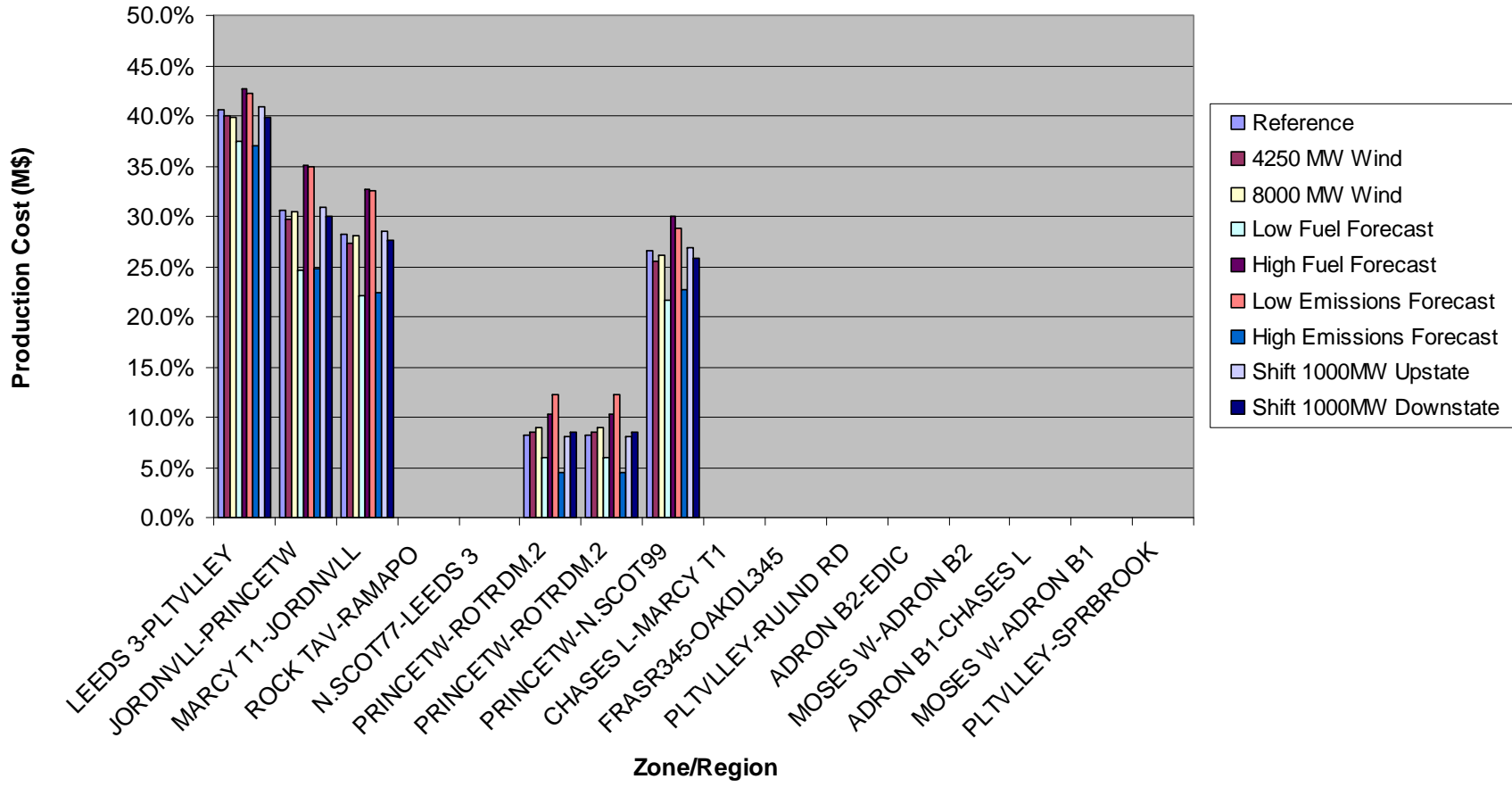


**BTP T14 Case Generation Change Sensitivity Results By Zone**  
Savings Due to BTP (BTP -RIK)





### T14 Case BTP Line Utilization Sensitivity Results



# **Attachment #10**

**BTP Transfer Limit Analysis**

# New York State Transmission Assessment and Reliability Study (STARS)

## Calculation of Transfer Limits for Horizon Year with Base Transmission Plan Projects

September 8, 2011

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## 1. INTRODUCTION

This report describes the calculation of transfer limits for key interfaces in the New York State Transmission System for the Horizon Year with the Base Transmission Plan (BTP) projects. The purpose of these calculations is to establish transfer limits for use in subsequent LOLE analysis.

Emergency thermal transfer limits were calculated for sixteen major interfaces within the NYCA: Dysinger East, West Central, Volney East, Moses South, Total East, Central East, Central East + Fraser-Gilboa, Central East Group, F to G, UPNY-SENY, UPNY-ConEd, Millwood South Closed, I to J, Dunwoodie South Open, I to K and LIPA Import. In addition, emergency voltage transfer limits were calculated for the Central East, Central East + Fraser-Gilboa and CE Group interfaces.

## 2. DESCRIPTION OF POWER FLOW MODEL

A power flow model representative of Horizon Year summer peak load conditions was used in this analysis. Total New York Control Area (NYCA) demand (load + losses) is 40,816 MW. Table 2-1 summarizes NYCA load and losses in the power flow model.

**Table 2-1: Load Levels in Horizon Year Summer Peak Case**

Zone #	Zone Name	Load (MW)	Losses (MW)	Demand (MW)
1	West	2999	124	3123
2	Genessee	2274	91	2365
3	Central	3144	179	3323
4	North	947	24	971
5	Mohawk Valley	1392	208	1600
6	Capital	2675	193	2868
7	Hudson Valley	2863	85	2948
8	Millwood	734	48	782
9	Dunwoodie	1706	48	1753
10	NYC	14143	184	14327
11	Long Island	6643	114	6757
<b>Total:</b>		<b>39521</b>	<b>1295</b>	<b>40816</b>

Table 2-2 summarizes the base case interface flows in the NYCA system and between NYCA and neighboring systems. Table 2-3 summarizes the schedules for selected phase angle regulators (PARs) and other controlled devices in the base case.

The case includes the following Initial Base Transmission Plan (BTP) facilities:

1. Oakdale-Fraser 345kV line #2
2. Moses-Marcy 345kV & Moses-Edic 345kV lines
3. Marcy-Jordanville-Princetown-New Scotland 345kV line
4. New Scotland-Leeds 345kV #3
5. Leeds-Pleasant Valley 345kV line #3
6. Rock Tavern-Ramapo 345kV line #2
7. Pleasant Valley – Sprainbrook HVDC line (900MW)
8. Pleasant Valley – Ruland Road HVDC line (600MW)
9. National Grid 115kV transmission upgrades

**Table 2-2: Summary of Base Case Interface Flows**

<b>Interface</b>	<b>Flow (MW)</b>
Dysinger East	2132
West Central	878
Moses South	2092
Volney East	3260
Total East Closed (Note 1)	6725
Central East	2835
Central East + Fraser-Gilboa	3063
CE Group	4633
F to G	4334
UPNY-SENY Open	6115
UPNY-ConEd Open	5751
Millwood South Closed (Note 2)	9697
Dunwoodie South Open	4461
I to J	3242
I to K (Y49/Y50)	1219
LIPA Import (Note 3)	2680

Notes:

1. Updated to include Hudson Transmission Project.
2. Updated to include Hudson Transmission Project, PV-Sprainbrook HVDC & PV - Ruland Road HVDC.
3. Updated to include PV - Ruland Road HVDC.

**Table 2-3: PAR Schedules in 2018 Summer Peak Case**

**(a) Controllable devices within NYCA**

Device	MW	Direction
Inghams (CD-E)	100	
Valley Stream PAR	122	Toward NYC
Lake Success PAR	165	Toward NYC
East Garden City PAR 1	298	Toward LIPA
East Garden City PAR 2	298	Toward LIPA
Sherman Creek PAR 1	185	Toward NYC
Sherman Creek PAR 2	185	Toward NYC
Parkchester PAR 1	208	Toward NYC
Parkchester PAR 2	208	Toward NYC
Dunwoodie North PAR 1	82	Toward NYC
Dunwoodie North PAR 2	82	Toward NYC
Dunwoodie South PAR 1	43	Toward NYC
Dunwoodie South PAR 2	43	Toward NYC
Pleasant Valley - Sprainbrook HVdc**	900	Toward Dunwoodie
Pleasant Valley - Ruland Road HVdc**	600	Toward LIPA

\*\* Measured at rectifier station

**(b) Inter-area controllable devices**

Device	MW	Direction
Ramapo PAR 1	502	Toward NY
Ramapo PAR 2	502	Toward NY
St. Lawrence PAR 1	149	Toward NY
St. Lawrence PAR 2	149	Toward NY
Sandbar PAR	75	Toward VT
Northport PAR	202	Toward NY
Farragut PAR 1	332	Toward NY
Farragut PAR 2	332	Toward NY
Goethals PAR	333	Toward NY
Linden VFT	244	Toward NY
Neptune HVdc	650	Toward NY
Cross Sound Cable HVdc	330	Toward NY
Chateauguay HVdc	832	Toward NY
Hudson Transmission Project (HTP)	460	Toward NY



### 3. CALCULATION OF EMERGENCY THERMAL TRANSFER LIMITS

Transfer limit analysis was performed to establish emergency thermal transfer limits for thermally-constrained interfaces. The analysis was performed on the Horizon Year power flow case presented in Section 2 of this report.

#### 3.1 Methodology

Emergency transfer limits were established using the Linear FCITC Calculation tool in the PSS<sup>TM</sup>MUST Program (version 10.2).

The emergency transfer limit is the transfer level at which:

- a branch is loaded at its normal rating (Rate A) for pre-contingency conditions, or
- a branch is loaded at its short-term emergency rating (Rate C) following a contingency

For the purposes of this analysis, transmission facilities rated 100 kV and above within NYCA (and tie-lines out of NYCA) were monitored. Engineering judgment was used to identify limiting transmission facilities. Generally, “direct tie” facilities or facilities in the vicinity of the interface being studied that became loaded at their Rate A or Rate C ratings as described above were flagged.

Interface definitions for the Volney East, Moses South, Central East, Central-East+Fraser-Gilboa, CE Group, F-to-G, UPNY-SENY, UPNY-ConEd, Total East and Millwood South Closed were updated to include the BTP transmission facilities. See Appendix A.

The following types of contingencies were simulated based on the contingency files provided by NYISO. In addition to these contingencies, other contingencies provided by National Grid associated with wind generation in the North Country were simulated.

1. Outage of branches connected between buses with a base voltage of 100 kV and above (these included outages based on “automatic” N-1 contingency specification<sup>1</sup> in MUST and specific pre-defined branch outages)
2. Generator outages
3. Series element contingencies
4. Bus contingencies

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<sup>1</sup> Automatic N-1 contingencies were not simulated in the Con Edison system.

## 5. HVdc contingencies

Phase angle regulators maintain their scheduled power flow pre-contingency but are fixed at their corresponding pre-contingency angle post-contingency.

### 3.2 Results

Table 3-1 summarizes the emergency thermal transfer limits obtained from the MUST analysis (full MUST output for the various interfaces is provided in Appendix B). Limits are rounded down to the nearest 25 MW.

Limits for the upstate interfaces were calculated without making any adjustments to the base case. Limits for the downstate interfaces are sensitive to phase angle regulator settings in Con Edison and LIPA and were calculated as described below:

Interface limits for the UPNY-ConEd Open, Millwood South Closed, Dunwoodie South Open and I-to-J interfaces were calculated based on the following assumptions (same assumptions as in the NYISO 2010 CATR; see reference [2]):

- Sherman Creek PAR1 and PAR2 are scheduled at 200 MW each into NYC.
- Parkchester PAR1 and PAR2 are scheduled at 245 MW each into NYC.
- Dunwoodie North PAR1 and PAR2 are scheduled at 115 MW each into NYC.
- Dunwoodie South PAR1 and PAR2 are scheduled at 120 and 115 MW respectively into NYC.

Limits for the “I to K” and “Long Island Import” interfaces were computed by making the following adjustments:

- Neptune HVDC is scheduled at 600 MW into LIPA.
- Cross Sound Cable is scheduled at 330 MW into LIPA.
- Pleasant Valley – Ruland Road HVDC line is scheduled at 568 MW into LIPA<sup>2</sup>.
- Northport PARs are scheduled at 450 MW into LIPA.
- Jamaica – Lake Success PAR is adjusted at 85 MW into LIPA.
- Jamaica – Valley Stream PAR is adjusted at 90 MW into LIPA.
- EGC PAR1 and PAR2 are scheduled at 318 MW each into LIPA.
- Resulting base case flow on Y50 (Dunwoodie – Shore Road 345 kV) is 616 MW.

---

<sup>2</sup> Due to HVDC converter and cable losses, receiving end power at Ruland Road is 568 MW. Power at the sending end (Pleasant Valley) is assumed to be 600 MW.

Table 3-2 compares the horizon year transfer limits (with BTP projects) against the intermediate year transfer limits (without BTP projects) derived earlier in Phase 2 of the STARS study (see reference [1]). This is not an “apples-to-apples” comparison because the transmission system and study years are different between the two sets of results. However, the comparison provides insight into how the emergency transfer limits have changed from the intermediate year to the horizon year without and with the BTP projects respectively.

In general, the following observations are made from Table 3-2.

1. Emergency transfer limits for the Dysinger East and West Central interfaces *decreased* by 9% and 4% respectively. This may be a consequence of load growth in Zones A and B (load growth in each of these zones is approx. 9% going from the Intermediate Year to the Horizon Year).
2. The limits for the Volney East interface exhibited a 5% decrease going from the Intermediate Year to the Horizon Year. The decrease in transfer limits is because the limiting facility for this interface (Fraser – Coopers Corners 345 kV line) is pre-loaded following the addition of BTP project Oakdale-Fraser 345 kV ckt #2.
3. The Moses South interface exhibited an increase of 58% in the emergency thermal transfer limits. However this increase is not entirely attributable to the BTP line additions (the BTP plan replaces the existing Moses-Adirondack-Porter 230 kV lines with the Moses-Marcy and the Moses-Edic 345 kV lines). The increase in emergency thermal transfer limits can be explained as follows (see Moses South FCITC tables in Appendix B). The tables show that the following constraints potentially impact the Moses South transfer limit:
  - Marcy 765/345 kV transformer AT-1 for loss of AT-2: According to reference [3], the post-contingency flow on the Marcy AT-1 bank is allowed to exceed its STE rating for the loss of the Marcy AT-2 bank, provided that the overload relay protection on the AT-1 bank is in-service. Under these assumptions, this is not a valid constraint.
  - Moses 345/230 kV transformer #1 for loss of #2 (and vice versa): NYPA indicated that this is not a valid constraint because the Moses 345/230 kV transformers can be sized such that loss of one transformer does not overload the other.
  - Marcy 765/345 kV transformer AT-2 for loss of AT-1: According to the reference [3], it is understood that the loading on AT-2 is not allowed to exceed its STE. Therefore, this becomes the binding limit. The

corresponding Moses South transfer limit is 4220 MW (4200 MW when rounded down to the nearest 25 MW).

4. The Central East, Central East+Fraser-Gilboa and CE Group interfaces all exhibited an increase in emergency transfer limits due to the addition of BTP transmission facilities, in particular the Marcy-Jordanville-Princetown-New Scotland 345kV line and the transmission facilities south of New Scotland. It should be noted here that despite this increase, these interfaces are voltage limited i.e., the voltage transfer limits for these interfaces are more restrictive than the corresponding emergency thermal transfer limits. See Sections 4 and 5.
5. Emergency transfer limits for the F-to-G, UPNY-SENY, UPNY-ConEd, Total East and Millwood South Closed interfaces increased significantly following the addition of the BTP projects.
6. The emergency transfer limit for the I-to-K interface is identical to the corresponding limit derived earlier in Phase 2 of the STARS study<sup>3</sup>.
7. The definition for the LIPA Import interface was updated by including the Pleasant Valley – Ruland Road HVDC line.

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<sup>3</sup> The limiting transfer for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

**Table 3-1: Emergency Thermal Transfer Limits for Horizon Year with BTP Projects**

<b>Interface</b>	<b>Horizon Year BTP Su Peak Case</b>	
Dysinger East	2950	1
West Central	1775	1
Volney East	4300	2
Moses South	4200	3
Total East (Closed)	7750	2
Central East (Note 1)	4175	4
Central East + Fraser-Gilboa (Note 1)	3725	2
CE Group (Note 1)	5650	2
F to G	5250	5
UPNY-SENY Open (Note 2)	7275	2
UPNY-ConEd Open (Note 3)	7525	6
Millwood South Closed (Note 4)	11275	6
I to J	4475	7
Dunwoodie South Open	5700	7
I to K	1275	8
LIPA Import	3475	8

<b>Limiting Facility</b>		<b>Limiting Rating MVA</b>	<b>Contingency</b>
1	Wethersfield - Meyer 230	430	Pre-disturbance
2	Fraser - Coopers Corners	1207	Pre-disturbance
3	Marcy 765/345 T2	2338	L/O Marcy 765/345 T1
4	New Scotland 77 - Leeds 345	1724	L/O New Scotland - Leeds #3
5	Leeds - Pleasant Valley #1 (existing)	1724	L/O Leeds - Pleasant Valley #3
6	Roseton-Fishkill 345	1935	Pre-disturbance
7	Dunwoodie-Mott Haven 71	783	Pre-disturbance
8	Dunwoodie-Shore Rd 345 (Note 6)	653	Pre-disturbance

**Notes:**

1. Excludes Plattsburgh-Sandbar 115 kV line
2. Excludes Jefferson-Ramapo 500 kV line
3. Horizon year definition includes Pleasant Valley - Sprainbrook HVdc (900 MW) and Pleasant Valley - Ruland Road HVdc (600 MW)
4. Horizon year definition includes Pleasant Valley - Sprainbrook HVdc (900 MW) and Pleasant Valley - Ruland Road HVdc (600 MW) and the Hudson Transmission Project (HTP)
5. Horizon year definition includes PV - Ruland Road HVdc (600 MW)
6. The limiting transfer for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

**Table 3-2: Comparison of Emergency Thermal Transfer Limits  
Horizon Year (With BTP) vs. Intermediate Year (Without BTP)**

Interface	Horizon Year BTP Su Peak Case With BTP	Intermediate Year Su Peak Case Without BTP	Difference	
			MW	%
Dysinger East	2950	3225	-275	-9%
West Central	1775	1850	-75	-4%
Volney East	4300	4550	-250	-5%
Moses South	4200	2650	1550	58%
Total East (Closed)	7750	6700	1050	16%
Central East (Note 1)	4175	3000	1175	39%
Central East + Fraser-Gilboa (Note 1)	3725	3200	525	16%
CE Group (Note 1)	5650	5175	475	9%
F to G	5250	3475	1775	51%
UPNY-SENY Open (Note 2)	7275	5225	2050	39%
UPNY-ConEd Open (Note 3)	7525	5800	1725	30%
Millwood South Closed (Note 4)	11275	9775	1500	15%
I to J	4475	4450	25	1%
Dunwoodie South Open	5700	5725	-25	0%
I to K	1275	1275	0	0%
LIPA Import (Note 5)	3475	2900	575	20%

**Notes:**

1. Excludes Plattsburgh-Sandbar 115 kV line.  
The voltage transfer limits for the Central East, Central East + Fraser-Gilboa and CE Group interfaces are more limiting than the corresponding emergency thermal transfer limits. See Sections 4 and 5.
2. Excludes Jefferson-Ramapo 500 kV line
3. Horizon year definition includes Pleasant Valley - Sprainbrook HVdc (900 MW) and Pleasant Valley - Ruland Road HVdc (600 MW)
4. Horizon year definition includes Pleasant Valley - Sprainbrook HVdc (900 MW) and Pleasant Valley - Ruland Road HVdc (600 MW) and the Hudson Transmission Project (HTP)
5. Horizon year definition includes PV - Ruland Road HVdc (600 MW)

## 4. CALCULATION OF EMERGENCY VOLTAGE TRANSFER LIMITS

Emergency voltage transfer limits were calculated on the Horizon Year power flow case presented in Section 2 of this report.

### 4.1 Methodology

Emergency voltage transfer limits were calculated using the PV Analysis tool of PSS/E™ (version 30).

The limits were calculated by preparing a series of power flow cases with increasing MW transfers across the interfaces being studied and subjecting them to severe (voltage-wise) contingencies. The monitored buses were then reviewed for violations of post-contingency minimum voltage criteria and/or voltage collapse.

The testing followed NYISO practices and procedures discussed in Attachment E of the NYISO Transmission Expansion and Interconnection Manual [4]. MW transfers were increased until the point of voltage collapse was reached. In power flow analysis, this point is the highest transfer level for which a solution can be achieved. There is no solution beyond this transfer level because there are no more dispatchable reactive power resources available to support the transfer. Upon plotting the specific bus voltage (y-axis) against the pre-contingency MW transfer level (x-axis), the impending voltage collapse can be identified as the knee point on the PV curve. Based on the maximum sustainable pre-contingency MW transfer (i.e. the transfer level for which a solution can be achieved post contingency; with any further increases in power transfer rendering the system un-solvable due to reactive power deficiency), a reduced pre-contingency transfer level based on a 5% safety margin is determined. This reduced transfer is then compared against the pre-contingency MW transfer level which corresponds to a post-contingency minimum voltage at the monitored buses. In order to ensure that a voltage-based transfer limit is computed with a margin of safety, the lower of the two power transfers (i.e. 95% of that corresponding to voltage collapse point or that obtained by applying the relevant post-contingency low voltage limit) is chosen as the voltage-limited interface maximum transfer level.

The following assumptions were made for the analysis:

1. Phase angle regulators (“PARs”), switched shunts and LTC transformers are modeled as regulating pre-contingency and non-regulating post-contingency.
2. SVC and FACTS devices are set to near zero pre-contingency and allowed to operate full range post-contingency.

## 4.2 Results

Table 4-1 summarizes the emergency voltage transfer limits for the Central East, Central East + Fraser-Gilboa and CE Group interfaces. For comparison purposes, corresponding intermediate year limits derived earlier in Phase 2 of the STARS study (reference [1]) are also summarized. Limits are rounded down to the nearest 25 MW. The last two columns summarize the differences between the two sets of limits both in MW and as a percentage of the intermediate year limits. The Plattsburgh-Sandbar 115 kV line is not included in the interface definitions.

Figure 4-1 shows the PV curves for the Central East interface at the Marcy 345 kV bus for pre-contingency conditions. The plot shows that when the flow on the Central East interface is 3298 MW, the Marcy 345 kV voltage violates the pre-contingency low voltage limit of 348 kV.

Figure 4-2 shows the PV curves for the Central East interface at the New Scotland 77 bus for various post-contingency conditions. For each contingency, the post-contingency voltage at New Scotland 77 bus is plotted against the pre-contingency MW flow on the interface. The most limiting contingency is the simultaneous loss of the Marcy – Coopers Corners and Fraser – Coopers Corners 345 kV lines (CE08). Note from the Figure 4-2 that for this particular contingency, the nose of the curve is approx. 3507 MW. The pre-contingency transfer that corresponds to 95% of 3507 MW is 3332 MW. The post-contingency voltage at the 3332 MW transfer level is above the post-contingency low voltage limit (328 MW). However, the pre-contingency flow of 3298 MW from Figure 4-1 is more limiting. Based on the above, the emergency voltage transfer limit for the Central East interface is 3298 MW.

Similarly, the emergency voltage transfer limits for the Central East + Fraser-Gilboa and the CE Group interfaces are 3712 MW and 5563 MW respectively.



**Table 4-1: Emergency Voltage Transfer Limits**

Interfaces	Post-Contingency Low (A)		95% Voltage Collapse (B)			Pre-Contingency Low		Horizon Year Limit with BTP Min(A,B,C)	Phase II Limit (Intermediate Year; No BTP)		Diff with Phase II Limit
	MW Flow	Limiting Facility	MW Flow	Limiting Facility	Tip of Curve	MW Flow	Limiting Bus	MW Flow	MW Flow	Limiting Facility	(%)
CENTRAL EAST	3375	1	3332	2	3507	<b>3298</b>	<b>Marcy 345</b>	3275	2925	3	12.7
CE+FRASER-GILBOA	3825	1	3805	2	4005	<b>3712</b>	<b>Marcy 345</b>	3700	3350	3	10.3
CE-GROUP	5710	1	5656	2	5953	<b>5563</b>	<b>Marcy 345</b>	5550	5175	3	7.5

Notes:

- 1) New Scotland 345kV bus voltage post-contingency low limit for L/O Coopers Corners-Marcy 345kV and Coopers Corners-Fraser 345kV (CE08)
- 2) 95% PV nose for L/O Coopers Corners-Marcy 345kV and Coopers Corners-Fraser 345kV (CE08)
- 3) 95% PV nose for L/O TWR 34/42 (CE18)

Figure 4-1: PV Curves for Central East Interface Showing Pre-contingency Voltage Limit

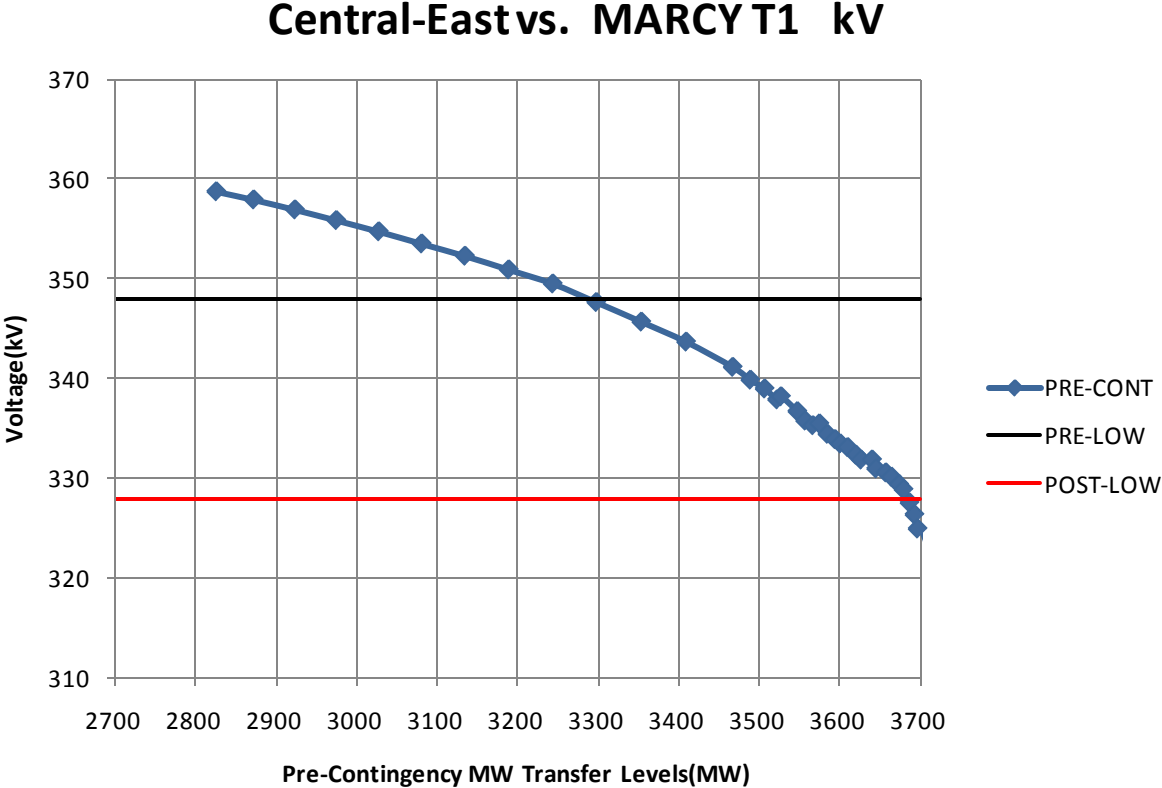
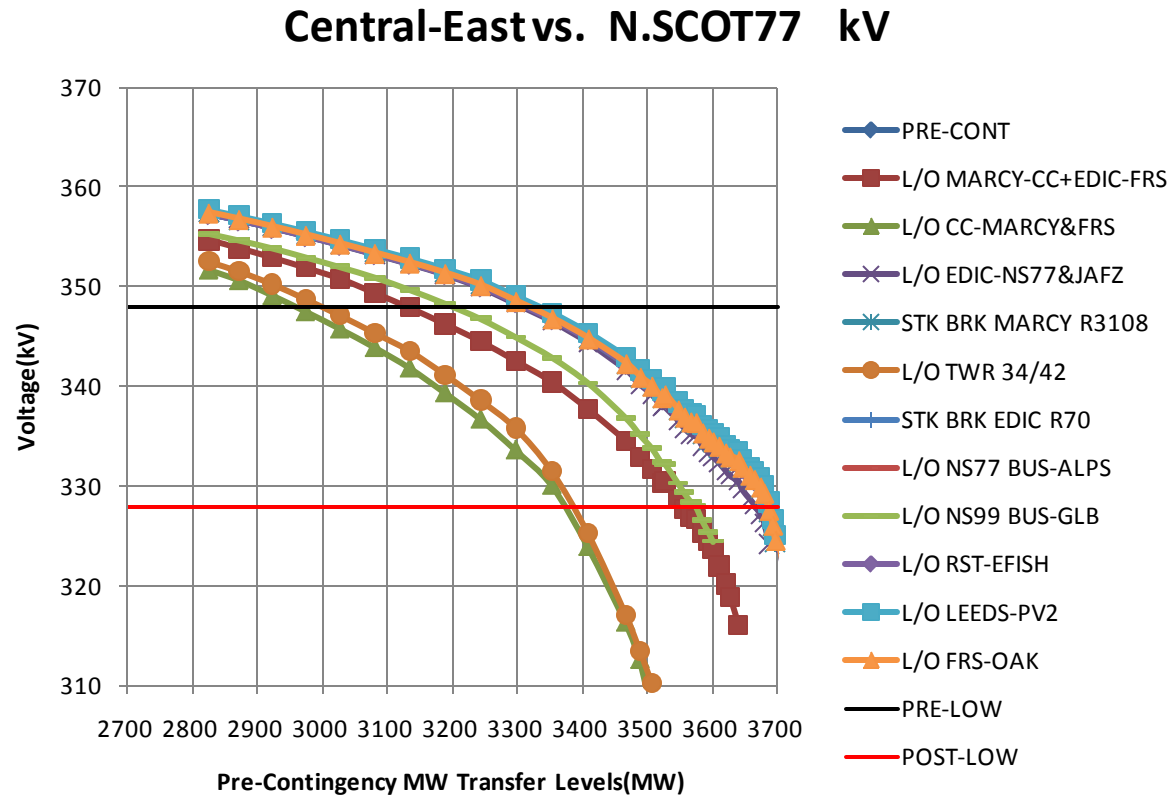


Figure 4-2: PV Curves for Central East Interface Showing Post-Contingency Voltage Limit



## 5. CONSOLIDATION OF EMERGENCY THERMAL AND VOLTAGE TRANSFER LIMITS FOR CENTRAL EAST INTERFACE

Emergency thermal and emergency voltage transfer limits for the Central East, Central East + Fraser Gilboa and CE Group interfaces are consolidated and presented in Table 5-1. The more limiting of the two transfer limits is shown in the last column.

**Table 5-1: Consolidation of Central East Limits**

Interface	STARS Horizon Year Summer Peak Case with BTP			
	Emergency Thermal Transfer Limit (MW)	Emergency Voltage Transfer Limit (MW)	Min (Thermal, Voltage)	
Central East	4175	3275	<b>3275</b>	(V)
Central East + Fraser-Gilboa	3725	3700	<b>3700</b>	(V)
CE Group	5650	5550	<b>5550</b>	(V)

(T) = Thermally-constrained

(V) = Voltage-constrained

## 6. REFERENCES

- [1] *NY STARS Phase II Draft Report*, Prepared by ABB Inc., July 9, 2010.
- [2] *2010 Comprehensive Area Transmission Review of the New York State Bulk Power Transmission System (Study Year 2015)*, Draft Report issued by the New York Independent System Operator, March 17, 2011.
- [3] *Exceptions to NYSRC Reliability Rules - Revision 1*, May 11, 2010.
- [4] NYISO Transmission Expansion and Interconnection Manual, September 1999.

**APPENDIX A – INTERFACE DEFINITIONS**

MONITOR INTERFACE 'DYSINGER EAST-OP' /

MONITOR BRANCH FROM BUS 147834 TO BUS 149000	CKT 1	/ NIAG 345	345	ROCH 345	345
MONITOR BRANCH FROM BUS 130754 TO BUS 149000	CKT 1	/ KINTI345	345	ROCH 345	345
MONITOR BRANCH FROM BUS 130767 TO BUS 130764	CKT 1	/ STOLE230	230	MEYER230	230
MONITOR BRANCH FROM BUS 135452 TO BUS 135851	CKT 1	/ LOCKPORT	115	SHEL-113	115
MONITOR BRANCH FROM BUS 135452 TO BUS 135867	CKT 1	/ LOCKPORT	115	OAKFLDTP	115
MONITOR BRANCH FROM BUS 135452 TO BUS 135875	CKT 1	/ LOCKPORT	115	TELRDTP1	115
MONITOR BRANCH FROM BUS 135452 TO BUS 135876	CKT 1	/ LOCKPORT	115	TELRDTP1	115
MONITOR BRANCH FROM BUS 130767 TO BUS 130770	CKT 1	/ STOLE230	230	SHLDN230	230
MONITOR BRANCH FROM BUS 135452 TO BUS 135865	CKT 1	/ LOCKPORT	115	NAKR-108	115

END

MONITOR INTERFACE 'WEST CENTRAL-OP' /

MONITOR BRANCH FROM BUS 149001 TO BUS 136150	CKT 2	/ PANNELL3	345	CLAY	345
MONITOR BRANCH FROM BUS 135861 TO BUS 136213	CKT 1	/ MORTIMER	115	LAWLER-2	115
MONITOR BRANCH FROM BUS 149141 TO BUS 136197	CKT 1	/ FRMNGT2	34.5	FRMGTN-4	115
MONITOR BRANCH FROM BUS 149118 TO BUS 149005	CKT 1	/ CLYDE 34	34.5	CLYDE199	115
MONITOR BRANCH FROM BUS 149025 TO BUS 136197	CKT 1	/ PANNELLI	115	FRMGTN-4	115
MONITOR BRANCH FROM BUS 149146 TO BUS 136197	CKT 1	/ S168	12	FRMGTN-4	115
MONITOR BRANCH FROM BUS 149075 TO BUS 136194	CKT 1	/ FARMNGTN	34.5	FARMGTN1	115
MONITOR BRANCH FROM BUS 149005 TO BUS 136183	CKT 1	/ CLYDE199	115	CLTNCORN	115
MONITOR BRANCH FROM BUS 149074 TO BUS 136167	CKT 1	/ STA127	34.5	HOOKRD	115
MONITOR BRANCH FROM BUS 135861 TO BUS 135860	CKT 1	/ MORTIMER	115	LAWLER-1	115
MONITOR BRANCH FROM BUS 149010 TO BUS 131345	CKT 1	/ STA 162	115	S.PER115	115
MONITOR BRANCH FROM BUS 130767 TO BUS 130770	CKT 1	/ STOLE230	230	SHLDN230	230
MONITOR BRANCH FROM BUS 131251 TO BUS 131252	CKT 1	/ BROWNS C	34.5	CLYDE 34	34.5
MONITOR BRANCH FROM BUS 149004 TO BUS 131243	CKT 1	/ S121 B#2	115	SLEIG115	115
MONITOR BRANCH FROM BUS 149005 TO BUS 131243	CKT 1	/ CLYDE199	115	SLEIG115	115
MONITOR BRANCH FROM BUS 149026 TO BUS 131242	CKT 1	/ QUAKER	115	MACDN115	115
MONITOR BRANCH FROM BUS 149122 TO BUS 130926	CKT 1	/ C708 LD	34.5	WOLCOT34	34.5
MONITOR BRANCH FROM BUS 130767 TO BUS 130764	CKT 1	/ STOLE230	230	MEYER230	230
MONITOR BRANCH FROM BUS 149001 TO BUS 136150	CKT 1	/ PANNELL3	345	CLAY	345
MONITOR BRANCH FROM BUS 135260 TO BUS 131344	CKT 1	/ ANDOVER1	115	PALMT115	115

END

MONITOR INTERFACE 'VOLNEY EAST-OP' /

MONITOR BRANCH FROM BUS 136150 TO BUS 137200	CKT 1	/ CLAY	345	EDIC	345
MONITOR BRANCH FROM BUS 130863 TO BUS 130796	CKT 1	/ WILET115	115	E.NOR115	115
MONITOR BRANCH FROM BUS 136250 TO BUS 137233	CKT 1	/ WHITMAN	115	ONEIDA	115
MONITOR BRANCH FROM BUS 137234 TO BUS 137233	CKT 1	/ PETRBORO	115	ONEIDA	115
MONITOR BRANCH FROM BUS 147830 TO BUS 137200	CKT 1	/ JA FITZP	345	EDIC	345
MONITOR BRANCH FROM BUS 136216 TO BUS 136755	CKT 1	/ LTHSE HL	115	BLACK RV	115
MONITOR BRANCH FROM BUS 136244 TO BUS 137233	CKT 1	/ TEALL	115	ONEIDA	115
MONITOR BRANCH FROM BUS 136216 TO BUS 136768	CKT 1	/ LTHSE HL	115	E WTRTWN	115
MONITOR BRANCH FROM BUS 136156 TO BUS 147833	CKT 1	/ VOLNEY	345	MARCY T1	345
MONITOR BRANCH FROM BUS 136150 TO BUS 137200	CKT 2	/ CLAY	345	EDIC	345
MONITOR BRANCH FROM BUS 130819 TO BUS 130817	CKT 1	/ KATEL115	115	JENN 115	115
MONITOR BRANCH FROM BUS 136529 TO BUS 137360	CKT 1	/ OMEGAWIR	34.5	CAMDEN	34.5
MONITOR BRANCH FROM BUS 137219 TO BUS 137233	CKT 1	/ W HILL_T	115	ONEIDA	115
MONITOR BRANCH FROM BUS 130755 TO BUS 130753	CKT 2	/ OAKDL345	345	FRASR345	345
MONITOR BRANCH FROM BUS 130838 TO BUS 130794	CKT 1	/ OAKDL115	115	DELHI115	115
MONITOR BRANCH FROM BUS 130755 TO BUS 130753	CKT 1	/ OAKDL345	345	FRASR345	345

END

MONITOR INTERFACE 'MOSES SOUTH-OP' /

MONITOR BRANCH FROM BUS 147840 TO BUS 147835	CKT 1	/ MOSES W	230	ADRON B1	230
MONITOR BRANCH FROM BUS 136750 TO BUS 136760	CKT 1	/ ALCOA-NM	115	BRADY	115
MONITOR BRANCH FROM BUS 147840 TO BUS 147836	CKT 1	/ MOSES W	230	ADRON B2	230
MONITOR BRANCH FROM BUS 999840 TO BUS 999835	CKT 1	/ MOSES W	345	ADRON B1	345
MONITOR BRANCH FROM BUS 136767 TO BUS 136752	CKT 1	/ DENNISON	115	ANDRS-4	115
MONITOR BRANCH FROM BUS 136767 TO BUS 136782	CKT 1	/ DENNISON	115	LWRNCE-B	115
MONITOR BRANCH FROM BUS 136791 TO BUS 136783	CKT 1	/ NICHOLVL	115	MALONE	115
MONITOR BRANCH FROM BUS 999840 TO BUS 999836	CKT 1	/ MOSES W	345	ADRON B2	345
MONITOR BRANCH FROM BUS 147828 TO BUS 147827	CKT 1	/ MASS 765	765	MARCY765	765

END

MONITOR INTERFACE 'TOTAL EAST' /

MONITOR BRANCH FROM BUS 999837 TO BUS 137728	CKT 1	/ JORDNVLL	345	PRINCETW	345
MONITOR BRANCH FROM BUS 5028 TO BUS 146752	CKT 1	/ WALDWICK	345	SMAHWAH1	345
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 1	/ PORTER 2	230	ROTRDM.2	230
MONITOR BRANCH FROM BUS 137204 TO BUS 137730	CKT 1	/ JORDNVLL	230	ROTRDM.2	230

MONITOR BRANCH FROM BUS 5028 TO BUS 146753	CKT 1 / WALDWICK	345	SMAHWAH2	345
MONITOR BRANCH FROM BUS 147833 TO BUS 137453	CKT 1 / MARCY T1	345	N. SCOT99	345
MONITOR BRANCH FROM BUS 137228 TO BUS 137886	CKT 1 / INGMS-CD	115	INGHAM-E	115
MONITOR BRANCH FROM BUS 137200 TO BUS 137452	CKT 1 / EDIC	345	N. SCOT77	345
MONITOR BRANCH FROM BUS 130862 TO BUS 131560	CKT 1 / W.WDB115	115	W. WDBR69	69
MONITOR BRANCH FROM BUS 130797 TO BUS 137886	CKT 1 / E.SPR115	115	INGHAM-E	115
MONITOR BRANCH FROM BUS 130753 TO BUS 147831	CKT 1 / FRASR345	345	GILB 345	345
MONITOR BRANCH FROM BUS 130750 TO BUS 146754	CKT 1 / COOPC345	345	MDTN TAP	345
MONITOR BRANCH FROM BUS 4996 TO BUS 126321	CKT 1 / LINDEN	230	GOETHALS	230
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 2 / PORTER 2	230	ROTRDM. 2	230
MONITOR BRANCH FROM BUS 234614 TO BUS 146807	CKT 1 / CRESSKIL	69	SPARKILL	69
MONITOR BRANCH FROM BUS 4989 TO BUS 126278	CKT 1 / HUDSON1	345	B3402 PAR1	345
MONITOR BRANCH FROM BUS 147852 TO BUS 100511	CKT 1 / PLAT T#3	115	GRAND IS	115
MONITOR BRANCH FROM BUS 234608 TO BUS 146812	CKT 1 / HCOR69	69	WNYA69	69
MONITOR BRANCH FROM BUS 234611 TO BUS 146826	CKT 1 / HCOR34	34.5	PEARL34	34.5
MONITOR BRANCH FROM BUS 234610 TO BUS 146790	CKT 1 / SMAH69	69	HILB69	69
MONITOR BRANCH FROM BUS 234609 TO BUS 146850	CKT 1 / MONTVALE	69	L491T	69
MONITOR BRANCH FROM BUS 234609 TO BUS 146777	CKT 2 / MONTVALE	69	BLUHILL	69
MONITOR BRANCH FROM BUS 130750 TO BUS 125001	CKT 2 / COOPC345	345	ROCK TAV	345
MONITOR BRANCH FROM BUS 234609 TO BUS 146777	CKT 1 / MONTVALE	69	BLUHILL	69
MONITOR BRANCH FROM BUS 5039 TO BUS 126279	CKT 1 / HUDSON2	345	C3403 PAR2	345
MONITOR BRANCH FROM BUS 234604 TO BUS 146769	CKT 1 / SMAH138	138	RAMP138	138
MONITOR BRANCH FROM BUS 234604 TO BUS 146752	CKT 1 / SMAH138	138	SMAHWAH1	345
MONITOR BRANCH FROM BUS 234603 TO BUS 146761	CKT 1 / HCOR138	138	BURNS138	138
MONITOR BRANCH FROM BUS 91 TO BUS 126250	CKT 1 / JEFFERSN	500	RAMAPO 5	500
MONITOR BRANCH FROM BUS 128842 TO BUS 128847	CKT 1 / NEPTCONV	345	NWBRG	345
MONITOR BRANCH FROM BUS 5473 TO BUS 126265	CKT 1 / LINDEN VFT			
MONITOR BRANCH FROM BUS 996304 TO BUS 126304	CKT 1 / Q206_INV	345.00	W 49 ST	345

END

MONITOR INTERFACE 'CENTRAL EAST'				/				
MONITOR BRANCH FROM BUS 999837 TO BUS 137728	CKT 1 / JORDNVLL	345	PRINCETW	345				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 2 / PORTER 2	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 137204 TO BUS 137730	CKT 1 / JORDNVLL	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 147833 TO BUS 137453	CKT 1 / MARCY T1	345	N. SCOT99	345				
MONITOR BRANCH FROM BUS 137228 TO BUS 137886	CKT 1 / INGMS-CD	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137228 TO BUS 137302	CKT 1 / INGMS-CD	115	INGHAMS	46				
MONITOR BRANCH FROM BUS 137200 TO BUS 137452	CKT 1 / EDIC	345	N. SCOT77	345				
MONITOR BRANCH FROM BUS 130797 TO BUS 137886	CKT 1 / E.SPR115	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 1 / PORTER 2	230	ROTRDM. 2	230				

END

MONITOR INTERFACE 'CE+FRAS-GILB'				/				
MONITOR BRANCH FROM BUS 999837 TO BUS 137728	CKT 1 / JORDNVLL	345	PRINCETW	345				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 2 / PORTER 2	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 137204 TO BUS 137730	CKT 1 / JORDNVLL	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 147833 TO BUS 137453	CKT 1 / MARCY T1	345	N. SCOT99	345				
MONITOR BRANCH FROM BUS 137228 TO BUS 137886	CKT 1 / INGMS-CD	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137228 TO BUS 137302	CKT 1 / INGMS-CD	115	INGHAMS	46				
MONITOR BRANCH FROM BUS 137200 TO BUS 137452	CKT 1 / EDIC	345	N. SCOT77	345				
MONITOR BRANCH FROM BUS 130797 TO BUS 137886	CKT 1 / E.SPR115	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 1 / PORTER 2	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 130753 TO BUS 147831	CKT 1 / FRASR345	345	GILB 345	345				

END

MONITOR INTERFACE 'CE-GROUP'				/				
MONITOR BRANCH FROM BUS 999837 TO BUS 137728	CKT 1 / JORDNVLL	345	PRINCETW	345				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 2 / PORTER 2	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 137204 TO BUS 137730	CKT 1 / JORDNVLL	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 147833 TO BUS 137453	CKT 1 / MARCY T1	345	N. SCOT99	345				
MONITOR BRANCH FROM BUS 137228 TO BUS 137886	CKT 1 / INGMS-CD	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137228 TO BUS 137302	CKT 1 / INGMS-CD	115	INGHAMS	46				
MONITOR BRANCH FROM BUS 137200 TO BUS 137452	CKT 1 / EDIC	345	N. SCOT77	345				
MONITOR BRANCH FROM BUS 130797 TO BUS 137886	CKT 1 / E.SPR115	115	INGHAM-E	115				
MONITOR BRANCH FROM BUS 137210 TO BUS 137730	CKT 1 / PORTER 2	230	ROTRDM. 2	230				
MONITOR BRANCH FROM BUS 130753 TO BUS 147831	CKT 1 / FRASR345	345	GILB 345	345				
MONITOR BRANCH FROM BUS 130750 TO BUS 125001	CKT 2 / COOPC345	345	ROCKTAV	345				
MONITOR BRANCH FROM BUS 130750 TO BUS 146754	CKT 1 / COOPC345	345	SHOEMTAP	345				

END



MONITOR INTERFACE 'MARCY-SOUTH'  
 MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCK TAV 345  
 MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 MDTN TAV 345  
 END

MONITOR INTERFACE 'F-To-G' / Captial to Hudson  
 MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 1 / LEEDS 3 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 2 / LEEDS 3 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137489 TO BUS 125043 CKT 1 / BL STR E 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137492 TO BUS 125043 CKT 1 / BLUES-8 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137480 TO BUS 125043 CKT 1 / ADM 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137455 TO BUS 126294 CKT 1 / ATHENS 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 1 / BOC 2T 115 N.CAT. 1 115  
 MONITOR BRANCH FROM BUS 137451 TO BUS 125000 CKT 1 / LEEDS 3 345 HURLEY 3 345  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 2 / BOC 2T 115 N.CAT. 1 115  
 END

MONITOR INTERFACE 'UPNY SENY-OP' /  
 MONITOR BRANCH FROM BUS 137489 TO BUS 125043 CKT 1 / BL STR E 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 103117 TO BUS 126294 CKT 1 / CTNY398 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137451 TO BUS 125000 CKT 1 / LEEDS 3 345 HURLEY 3 345  
 MONITOR BRANCH FROM BUS 130750 TO BUS 125001 CKT 2 / COOPC345 345 ROCK TAV 345  
 MONITOR BRANCH FROM BUS 137480 TO BUS 125043 CKT 1 / ADM 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137492 TO BUS 125043 CKT 1 / BLUES-8 115 PL.VAL 1 115  
 MONITOR BRANCH FROM BUS 137455 TO BUS 126294 CKT 1 / ATHENS 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 2 / LEEDS 3 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 130750 TO BUS 146754 CKT 1 / COOPC345 345 MDTN TAP 345  
 MONITOR BRANCH FROM BUS 130862 TO BUS 131560 CKT 1 / W.WDB115 115 W.WDBR69 69  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 1 / BOC 2T 115 N.CAT. 1 115  
 MONITOR BRANCH FROM BUS 137451 TO BUS 126294 CKT 1 / LEEDS 3 345 PLTVLLEY 345  
 MONITOR BRANCH FROM BUS 137507 TO BUS 125040 CKT 2 / BOC 2T 115 N.CAT. 1 115  
 END

MONITOR INTERFACE 'UPNY-CONED-OP' /  
 MONITOR BRANCH FROM BUS 126294 TO BUS 999294 CKT 1 / Pleasant Valley-Sprainbrook HVDC  
 MONITOR BRANCH FROM BUS 126294 TO BUS 998294 CKT 1 / Pleasant Valley-Ruland Road HVDC  
 MONITOR BRANCH FROM BUS 126290 TO BUS 126263 CKT 1 / LADENTWN 345 BUCHANAN S 345  
 MONITOR BRANCH FROM BUS 126294 TO BUS 126281 CKT 1 / PLTVLLEY 345 FISHKILL 345  
 MONITOR BRANCH FROM BUS 125002 TO BUS 126281 CKT 1 / ROSETON 345 FISHKILL 345  
 MONITOR BRANCH FROM BUS 126294 TO BUS 126306 CKT 1 / PLTVLLEY 345 WOOD B 345  
 MONITOR BRANCH FROM BUS 125026 TO BUS 131112 CKT 1 / FISHKILL 115 SYLVN115 115  
 MONITOR BRANCH FROM BUS 126297 TO BUS 126262 CKT 1 / RAMAPO 345 BUCHANAN N 345  
 MONITOR BRANCH FROM BUS 126281 TO BUS 125022 CKT 1 / FISHKILL 345 E FISH I 115  
 MONITOR BRANCH FROM BUS 126294 TO BUS 126281 CKT 2 / PLTVLLEY 345 FISHKILL 345  
 MONITOR BRANCH FROM BUS 126294 TO BUS 126291 CKT 1 / PLTVLLEY 345 MILLWOOD 345  
 END

COM Millwood South Closed interface cuts the following lines:  
 COM Millwood-Eastview 345 kV ties (Total of 3 345 kV lines)  
 COM E.Fishkill-Pleasantville East 345 kV line  
 COM E.Fishkill-WoodA-Pleasantville West 345 kV line  
 COM Buchanan-Eastview 345 kV line  
 COM The following controlled lines are also included in Millwood South Closed  
 COM Linden-Goethals 230 kV A  
 COM Hudson-Farragut 345 kV B  
 COM Hudson-Farragut 345 kV C  
 COM Linden VFT  
 COM Norwalk Hbr - Northport 138 kV (Total of 3 138 kV lines)  
 COM Cross Sound Cable (Shoreham HVDC)  
 COM Neptune HVDC  
 COM HTP Project  
 COM PV-Sprainbrook HVDC  
 COM PV-Ruland Road HVDC

MONITOR INTERFACE 'MILW-SOUTH-CLS'  
 MONITOR BRANCH FROM BUS 126305 TO BUS 126293 CKT 1 / WOOD A 345 PL VILLW 345  
 MONITOR BRANCH FROM BUS 126281 TO BUS 126292 CKT 1 / FISHKILL 345 PL VILLE 345  
 MONITOR BRANCH FROM BUS 126262 TO BUS 126267 CKT 1 / BUCHANAN N 345 E VIEW 2N 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126269 CKT 1 / MILLWOOD 345 E VIEW 2S 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126270 CKT 1 / MILLWOOD 345 E VIEW 1S 345  
 MONITOR BRANCH FROM BUS 126291 TO BUS 126268 CKT 1 / MILLWOOD 345 E VIEW 1N 345  
 MONITOR BRANCH FROM BUS 4996 TO BUS 126321 CKT 1 / LINDEN 230 GOETHALS 230

MONITOR BRANCH FROM BUS	4989	TO BUS	126278	CKT	1	/ HUDSON1	345	B3402 PAR1	345
MONITOR BRANCH FROM BUS	5039	TO BUS	126279	CKT	1	/ HUDSON2	345	C3403 PAR2	345
MONITOR BRANCH FROM BUS	5473	TO BUS	126265	CKT	1	/ LINDEN VFT			
MONITOR BRANCH FROM BUS	103166	TO BUS	129343	CKT	1	/ NOR HBR	138	NRTHPT P	138
MONITOR BRANCH FROM BUS	103166	TO BUS	129343	CKT	2	/ NOR HBR	138	NRTHPT P	138
MONITOR BRANCH FROM BUS	103166	TO BUS	129343	CKT	3	/ NOR HBR	138	NRTHPT P	138
MONITOR BRANCH FROM BUS	128880	TO BUS	129459	CKT	1	/ SHMHVDCL	192	SHOREHAM	138
MONITOR BRANCH FROM BUS	128842	TO BUS	128847	CKT	1	/ NEPTCONV	345.00	NWBRG	345.00
MONITOR BRANCH FROM BUS	996304	TO BUS	126304	CKT	1	/ Q206_INV	345.00	W 49 ST	345.00 HTP
HVDC#31 PROJECT									
MONITOR BRANCH FROM BUS	126294	TO BUS	999294	CKT	1	/ PV - Sprainbrook		HVDC (900 MW)	
MONITOR BRANCH FROM BUS	126294	TO BUS	998294	CKT	1	/ PV - Ruland Road		(600 MW)	
END									
MONITOR INTERFACE 'DUNWOODIE-SOUTH' / Dunwoodie South Open									
MONITOR BRANCH FROM BUS	126518	TO BUS	126304	CKT	2	/ REACM52	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126370	TO BUS	126483	CKT	1	/ DUN NO1R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126371	TO BUS	126483	CKT	1	/ DUN NO2R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126374	TO BUS	126385	CKT	1	/ DUN SO1R	138	E179 ST	138
MONITOR BRANCH FROM BUS	126517	TO BUS	126304	CKT	1	/ REACM51	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126266	TO BUS	126601	CKT	SR	/ DUNWODIE	345	REAC72	345
MONITOR BRANCH FROM BUS	126299	TO BUS	147857	CKT	1	/ REACBUS	345	DVNPT NK	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126847	CKT	1	/ SPRBROOK	345	ACADEMY	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126301	CKT	1	/ SPRBROOK	345	TREMONT	345
MONITOR BRANCH FROM BUS	126266	TO BUS	126600	CKT	SR	/ DUNWODIE	345	REAC71	345
MONITOR BRANCH FROM BUS	126266	TO BUS	128835	CKT	1	/ DUNWODIE	345	SHORE RD	345
END									
MONITOR INTERFACE 'I-to-K' / Dunwoodie (I) to Long Island (K)									
MONITOR BRANCH FROM BUS	126266	TO BUS	128835	CKT	1	/ DUNWODIE	345	SHORE RD	345
MONITOR BRANCH FROM BUS	147857	TO BUS	128830	CKT	1	/ DVNPT NK	345	HMP HRBR	345
END									
MONITOR INTERFACE 'I-TO-J' / Dunwoodie (I) to NYCity (J)									
MONITOR BRANCH FROM BUS	126518	TO BUS	126304	CKT	2	/ REACM52	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126600	TO BUS	126641	CKT	3	/ REAC71	345	MOTT HAVEN	345
MONITOR BRANCH FROM BUS	126374	TO BUS	126385	CKT	1	/ DUN SO1R	138	E179 ST	138
MONITOR BRANCH FROM BUS	126370	TO BUS	126483	CKT	1	/ DUN NO1R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126517	TO BUS	126304	CKT	1	/ REACM51	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126371	TO BUS	126483	CKT	1	/ DUN NO2R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126601	TO BUS	126641	CKT	4	/ REAC72	345	MOTT HAVEN	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126301	CKT	1	/ SPRBROOK	345	TREMONT	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126847	CKT	1	/ SPRBROOK	345	ACADEMY	345
END									
MONITOR INTERFACE 'I-TO-J+K' /									
MONITOR BRANCH FROM BUS	126266	TO BUS	128835	CKT	1	/ DUNWODIE	345	SHORE RD	345
MONITOR BRANCH FROM BUS	147857	TO BUS	128830	CKT	1	/ DVNPT NK	345	HMP HRBR	345
MONITOR BRANCH FROM BUS	126518	TO BUS	126304	CKT	2	/ REACM52	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126600	TO BUS	126641	CKT	3	/ REAC71	345	MOTT HAVEN	345
MONITOR BRANCH FROM BUS	126374	TO BUS	126385	CKT	1	/ DUN SO1R	138	E179 ST	138
MONITOR BRANCH FROM BUS	126370	TO BUS	126483	CKT	1	/ DUN NO1R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126517	TO BUS	126304	CKT	1	/ REACM51	345	W 49 ST	345
MONITOR BRANCH FROM BUS	126371	TO BUS	126483	CKT	1	/ DUN NO2R	138	S CREEK	138
MONITOR BRANCH FROM BUS	126601	TO BUS	126641	CKT	4	/ REAC72	345	MOTT HAVEN	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126301	CKT	1	/ SPRBROOK	345	TREMONT	345
MONITOR BRANCH FROM BUS	126298	TO BUS	126847	CKT	1	/ SPRBROOK	345	ACADEMY	345
END									
MONITOR INTERFACE 'NYC-LIPA' /									
MONITOR BRANCH FROM BUS	126455	TO BUS	129249	CKT	1	/ JAMAICA	138	L SUCSPH	138
MONITOR BRANCH FROM BUS	126455	TO BUS	129235	CKT	1	/ JAMAICA	138	V STRM P	138
END									
MONITOR INTERFACE 'LIPA IMPORT' /									
MONITOR BRANCH FROM BUS	126266	TO BUS	128835	CKT	1	/ DUNWODIE	345	SHORE RD	345
MONITOR BRANCH FROM BUS	147857	TO BUS	128830	CKT	1	/ DVNPT NK	345	HMP HRBR	345
MONITOR BRANCH FROM BUS	126455	TO BUS	129249	CKT	1	/ JAMAICA	138	L SUCSPH	138
MONITOR BRANCH FROM BUS	126455	TO BUS	129235	CKT	1	/ JAMAICA	138	V STRM P	138
MONITOR BRANCH FROM BUS	103166	TO BUS	129343	CKT	1	/ NORHR138	138	NRTHPT P	138
MONITOR BRANCH FROM BUS	103166	TO BUS	129343	CKT	2	/ NORHR138	138	NRTHPT P	138

MONITOR BRANCH FROM BUS 103166 TO BUS 129343 CKT 3 / NORHR138 138 NRTHPT P 138  
MONITOR BRANCH FROM BUS 128880 TO BUS 129459 CKT 1 / SHHVDCL 192 SHOREHAM 138  
MONITOR BRANCH FROM BUS 128842 TO BUS 128847 CKT 1 / NEPTCONV 345 NWBRG 345  
MONITOR BRANCH FROM BUS 999860 TO BUS 128860 CKT 1 / PV - RULAND ROAD DC  
END

MONITOR INTERFACE 'LI SUM' / I+J TO K  
MONITOR BRANCH FROM BUS 126266 TO BUS 128835 CKT 1 / DUNWODIE 345 SHORE RD 345  
MONITOR BRANCH FROM BUS 147857 TO BUS 128830 CKT 1 / DVNPT NK 345 HMP HRBR 345  
MONITOR BRANCH FROM BUS 126455 TO BUS 129249 CKT 1 / JAMAICA 138 L SUCSPH 138  
MONITOR BRANCH FROM BUS 126455 TO BUS 129235 CKT 1 / JAMAICA 138 V STRM P 138  
END

**APPENDIX B – MUST OUTPUT**



# Interface Details

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
1 DYSINGER EAS  -4208.0    4208.0    2132.2
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow
130754	KINTI345	345 149000	ROCH 345	345	1	823.2
130767	STOLE230	230 130764	MEYER230	230	1	0.0
130767	STOLE230	230 130770	SHLDN230	230	1	275.1
135452	LOCKPORT	115 135851	SHEL-113	115	1	93.3
135452	LOCKPORT	115 135865	NAKR-108	115	1	63.8
135452	LOCKPORT	115 135867	OAKFLDTP	115	1	0.0
135452	LOCKPORT	115 135875	TELRDTP1	115	1	90.1
135452	LOCKPORT	115 135876	TELRDTP1	115	1	82.2
147834	NIAG 345	345 149000	ROCH 345	345	1	704.5

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
2 WEST CENTRAL -4532.2    4532.2    878.4
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow
130767	STOLE230	230 130764	MEYER230	230	1	0.0
130767	STOLE230	230 130770	SHLDN230	230	1	275.1
149122	C708 LD	34.5 130926	WOLCOT34	34.5	1	-0.0
149026	QUAKER	115 131242	MACDN115	115	1	44.6
149004	S121 B#2	115 131243	SLEIG115	115	1	92.8
149005	CLYDE199	115 131243	SLEIG115	115	1	-43.2
131251	BROWNS C	34.5 131252	CLYDE 34	34.5	1	0.0
135260	ANDOVER1	115 131344	PALMT115	115	1	45.7
149010	STA 162	115 131345	S.PER115	115	1	3.4
135861	MORTIMER	115 135860	LAWLER-1	115	1	93.0
135861	MORTIMER	115 136213	LAWLER-2	115	1	66.1
149001	PANNELL3	345 136150	CLAY	345	1	145.4
149001	PANNELL3	345 136150	CLAY	345	2	145.8
149074	STA127	34.5 136167	HOOKRD	115	1	-30.7
149005	CLYDE199	115 136183	CLTNCORN	115	1	19.6
149075	FARMNGTN	34.5 136194	FARMGTN1	115	1	-32.2
149025	PANNELLI	115 136197	FRMGTN-4	115	1	127.0
149141	FRMNGT2	34.5 136197	FRMGTN-4	115	1	-44.4
149146	S168	12.0 136197	FRMGTN-4	115	1	-6.2
149118	CLYDE 34	34.5 149005	CLYDE199	115	1	-23.5

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
3 VOLNEY EAST- -10047.0   10047.0   3259.8
```

List of interface branches

**	From Bus	** **	To Bus	**	CKT	InitFlow
130755	OAKDL345	345 130753	FRASR345	345	1	315.4
130755	OAKDL345	345 130753	FRASR345	345	2	315.3
130838	OAKDL115	115 130794	DELHI115	115	1	31.6
130863	WILET115	115 130796	E.NOR115	115	1	89.2
130819	KATEL115	115 130817	JENN 115	115	1	0.0
136150	CLAY	345 137200	EDIC	345	1	526.2
136150	CLAY	345 137200	EDIC	345	2	527.8
136156	VOLNEY	345 147833	MARCY T1	345	1	700.6
136216	LTHSE HL	115 136755	BLACK RV	115	1	-1.4
136216	LTHSE HL	115 136768	E WTRTWN	115	1	4.4
136244	TEALL	115 137233	ONEIDA	115	1	37.6

136250	WHITMAN	115	137233	ONEIDA	115	1	0.0
136529	OMEGAWIR	34.5	137360	CAMDEN	34.5	1	-3.1
147830	JA FITZP	345	137200	EDIC	345	1	717.0
137219	W HILL_T	115	137233	ONEIDA	115	1	-7.1
137234	PETRBORO	115	137233	ONEIDA	115	1	6.3

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
4 MOSES SOUTH- -8344.0   8344.0   2091.5
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
136750	ALCOA-NM	115	136760	BRADY	115	1	27.4
136767	DENNISON	115	136752	ANDRWS-4	115	1	12.7
136767	DENNISON	115	136782	LWRNCE-B	115	1	14.5
136791	NICHOLVL	115	136783	MALONE	115	1	0.0
147828	MASS 765	765	147827	MARCY765	765	1	1421.9
999840	MOSES W	345	999835	ADRON B1	345	1	288.5
999840	MOSES W	345	999836	ADRON B2	345	1	326.6

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
5 TOTAL EAST   -16568.1  16568.1  6725.4
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
91	JEFFERSN	500	126250	RAMAPO 5	500	1	1002.9
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.3
4996	LINDEN	230	126321	GOETHALS	230	1	332.5
5028	WALDWICK	345	146752	SMAHWAH1	345	1	-452.1
5028	WALDWICK	345	146753	SMAHWAH2	345	1	-546.3
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.3
5473	LINVFT4	345	126265	COGNTECH	345	1	243.9
234603	HCOR138	138	146761	BURNS138	138	1	0.0
234604	SMAH138	138	146752	SMAHWAH1	345	1	-129.1
234604	SMAH138	138	146769	RAMP138	138	1	-101.3
234608	HCOR69	69.0	146812	WNYA69	69.0	1	-25.1
234609	MONTVALE	69.0	146777	BLUHILL	69.0	1	6.8
234609	MONTVALE	69.0	146777	BLUHILL	69.0	2	6.8
234609	MONTVALE	69.0	146850	L491T	69.0	1	-39.1
234610	SMAH69	69.0	146790	HILB69	69.0	1	-64.1
234611	HCOR34	34.5	146826	PEARL34	34.5	1	12.5
234614	CRESSKIL	69.0	146807	SPARKILL	69.0	1	-12.8
147852	PLAT T#3	115	100511	GRAND IS	115	1	84.0
130750	COOPC345	345	125001	ROCK TAV	345	2	726.5
996304	W49_INV	416	126304	W 49 ST	345	1	460.7
128842	NEPTCONV	345	128847	NWBRG	345	1	648.1
130750	COOPC345	345	146754	MDTN TAP	345	1	843.9
130753	FRASR345	345	147831	GILB 345	345	1	227.7
130797	E.SPR115	115	137886	INGHAM-E	115	1	21.8
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0
137200	EDIC	345	137452	N.SCOT77	345	1	837.8
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	0.0
137228	INGMS-CD	115	137886	INGHAM-E	115	1	97.0
147833	MARCY T1	345	137453	N.SCOT99	345	1	927.1
999837	JORDNVLL	345	137728	PRINCETW	345	1	950.8

/ HTP project dispatched at 460 MW

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
6 CENTRAL EAST -5763.8   5763.8   2834.9
```

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130797	E.SPR115	115 137886	INGHAM-E	115 1	21.8
137200	EDIC	345 137452	N.SCOT77	345 1	837.8
137210	PORTER 2	230 137730	ROTRDM.2	230 1	0.0
137210	PORTER 2	230 137730	ROTRDM.2	230 2	0.0
137228	INGMS-CD	115 137302	INGHAMS	46.0 1	0.3
137228	INGMS-CD	115 137886	INGHAM-E	115 1	97.0
147833	MARCY T1	345 137453	N.SCOT99	345 1	927.1
999837	JORDNVLL	345 137728	PRINCETW	345 1	950.8

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
7 CE+FRAS-GILB	-7191.8	7191.8	3062.5

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130753	FRASR345	345 147831	GILB 345	345 1	227.7
130797	E.SPR115	115 137886	INGHAM-E	115 1	21.8
137200	EDIC	345 137452	N.SCOT77	345 1	837.8
137210	PORTER 2	230 137730	ROTRDM.2	230 1	0.0
137210	PORTER 2	230 137730	ROTRDM.2	230 2	0.0
137228	INGMS-CD	115 137302	INGHAMS	46.0 1	0.3
137228	INGMS-CD	115 137886	INGHAM-E	115 1	97.0
147833	MARCY T1	345 137453	N.SCOT99	345 1	927.1
999837	JORDNVLL	345 137728	PRINCETW	345 1	950.8

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
8 CE-GROUP	-10209.8	10209.8	4632.9

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130750	COOPC345	345 125001	ROCK TAV	345 2	726.5
130750	COOPC345	345 146754	MDTN TAP	345 1	843.9
130753	FRASR345	345 147831	GILB 345	345 1	227.7
130797	E.SPR115	115 137886	INGHAM-E	115 1	21.8
137200	EDIC	345 137452	N.SCOT77	345 1	837.8
137210	PORTER 2	230 137730	ROTRDM.2	230 1	0.0
137210	PORTER 2	230 137730	ROTRDM.2	230 2	0.0
137228	INGMS-CD	115 137302	INGHAMS	46.0 1	0.3
137228	INGMS-CD	115 137886	INGHAM-E	115 1	97.0
147833	MARCY T1	345 137453	N.SCOT99	345 1	927.1
999837	JORDNVLL	345 137728	PRINCETW	345 1	950.8

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
10 F-To-G	-6453.0	6453.0	4333.9

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
137451	LEEDS 3	345 125000	HURLEY 3	345 1	822.7
137507	BOC 2T	115 125040	N.CAT. 1	115 1	0.0
137507	BOC 2T	115 125040	N.CAT. 1	115 2	88.5
137480	ADM	115 125043	PL.VAL 1	115 1	52.2
137489	BL STR E	115 125043	PL.VAL 1	115 1	53.2
137492	BLUES-8	115 125043	PL.VAL 1	115 1	52.7
137451	LEEDS 3	345 126294	PLTVLLEY	345 1	1126.7
137451	LEEDS 3	345 126294	PLTVLLEY	345 2	1086.0
137455	ATHENS	345 126294	PLTVLLEY	345 1	1051.9

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
11 UPNY SENY-OP	-11702.1	11702.1	6410.3

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
103117	CTNY398	345 126294	PLTVLLEY	345 1	474.5
137451	LEEDS 3	345 125000	HURLEY 3	345 1	829.1
130750	COOPC345	345 125001	ROCK TAV	345 2	755.1
137507	BOC 2T	115 125040	N.CAT. 1	115 1	0.0
137507	BOC 2T	115 125040	N.CAT. 1	115 2	86.9
137480	ADM	115 125043	PL.VAL 1	115 1	49.7
137489	BL STR E	115 125043	PL.VAL 1	115 1	50.3
137492	BLUES-8	115 125043	PL.VAL 1	115 1	51.6
137451	LEEDS 3	345 126294	PLTVLLEY	345 1	1117.7
137451	LEEDS 3	345 126294	PLTVLLEY	345 2	1077.5
137455	ATHENS	345 126294	PLTVLLEY	345 1	1043.8
130750	COOPC345	345 146754	MDTN TAP	345 1	874.1
130862	W.WDB115	115 131560	W.WDBR69	69.0 1	0.0

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
12 UPNY-CONED-O	-13455.0	13455.0	6048.8

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
125002	ROSETON	345 126281	FISHKILL	345 1	1252.6
126281	FISHKILL	345 125022	E FISH I	115 1	140.4
125026	FISHKILL	115 131112	SYLVN115	115 1	111.1
126297	RAMAPO	345 126262	BUCHANAN N	345 1	273.9
126290	LADENTWN	345 126263	BUCHANAN S	345 1	690.9
126294	PLTVLLEY	345 126281	FISHKILL	345 1	325.6
126294	PLTVLLEY	345 126281	FISHKILL	345 2	325.6
126294	PLTVLLEY	345 126291	MILLWOOD	345 1	698.3
126294	PLTVLLEY	345 126306	WOOD B	345 1	730.4
126294	PLTVLLEY	345 998294	PV_RCT_2	416 1	600.0
126294	PLTVLLEY	345 999294	PV_RCT_1	416 1	900.0

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
13 MILW-SOUTH-C	-16396.0	16396.0	9993.0

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
4989	HUDSON1	345 126278	B3402 PAR1	345 1	333.0
4996	LINDEN	230 126321	GOETHALS	230 1	333.5
5039	HUDSON2	345 126279	C3403 PAR2	345 1	333.0
5473	LINVFT4	345 126265	COGNTECH	345 1	244.0
103166	NORHR138	138 129343	NRTHPT P	138 1	67.6
103166	NORHR138	138 129343	NRTHPT P	138 2	67.6
103166	NORHR138	138 129343	NRTHPT P	138 3	67.6
126262	BUCHANAN N	345 126267	E VIEW 2N	345 1	1122.5
126291	MILLWOOD	345 126268	E VIEW 1N	345 1	988.4
126291	MILLWOOD	345 126269	E VIEW 2S	345 1	939.6
126291	MILLWOOD	345 126270	E VIEW 1S	345 1	939.6
126281	FISHKILL	345 126292	PL VILLE	345 1	824.4
126305	WOOD A	345 126293	PL VILLW	345 1	793.9
126294	PLTVLLEY	345 998294	PV_RCT_2	416 1	600.0
126294	PLTVLLEY	345 999294	PV_RCT_1	416 1	900.0
996304	W49_INV	416 126304	W 49 ST	345 1	460.7
128842	NEPTCONV	345 128847	NWBRG	345 1	648.1
128880	SHMHVDCL	192 129459	SHOREHAM	138 1	329.5

\*\*\*\* Interface \*\*\*

	Limit Import	Limit Export	InitFlow
16 I-TO-J	-4949.0	4949.0	3530.2



List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126298	SPRBROOK	345	126301 TREMONT	345 1	488.4
126298	SPRBROOK	345	126847 ACADEMY	345 1	401.3
126517	REACM51	345	126304 W 49 ST	345 1	548.6
126518	REACM52	345	126304 W 49 ST	345 2	548.6
126370	DUN NO1R	138	126483 S CREEK	138 1	114.9
126371	DUN NO2R	138	126483 S CREEK	138 1	115.7
126374	DUN SO1R	138	126385 E179 ST	138 1	233.9
126600	REAC71	345	126641 MOTT HAVEN	345 3	541.3
126601	REAC72	345	126641 MOTT HAVEN	345 4	537.5

\*\*\*\* Interface \*\*\*

Limit Limit  
Import Export

14 DUNWOODIE-SO -6344.0 6344.0 4751.0 / Dunwoodie South Open

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126266	DUNWODIE	345	126600 REAC71	345 SR	541.3
126266	DUNWODIE	345	126601 REAC72	345 SR	537.5
126266	DUNWODIE	345	128835 SHORE RD	345 1	622.7
126298	SPRBROOK	345	126301 TREMONT	345 1	488.4
126298	SPRBROOK	345	126847 ACADEMY	345 1	401.3
126299	REACBUS	345	147857 DVNPT NK	345 1	598.0
126517	REACM51	345	126304 W 49 ST	345 1	548.6
126518	REACM52	345	126304 W 49 ST	345 2	548.6
126370	DUN NO1R	138	126483 S CREEK	138 1	114.9
126371	DUN NO2R	138	126483 S CREEK	138 1	115.7
126374	DUN SO1R	138	126385 E179 ST	138 1	233.9

\*\*\*\* Interface \*\*\*

Limit Limit  
Import Export

15 I-to-K -1455.0 1455.0 1254.6

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126266	DUNWODIE	345	128835 SHORE RD	345 1	616.3
147857	DVNPT NK	345	128830 HMP HRBR	345 1	638.3

\*\*\*\* Interface \*\*\*

Limit Limit  
Import Export

19 LIPA IMPORT -2810.0 2810.0 3438.8U

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
103166	NORHR138	138	129343 NRTHPT P	138 1	150.3
103166	NORHR138	138	129343 NRTHPT P	138 2	150.3
103166	NORHR138	138	129343 NRTHPT P	138 3	150.3
126266	DUNWODIE	345	128835 SHORE RD	345 1	616.3
126455	JAMAICA	138	129235 V STRM P	138 1	85.5
126455	JAMAICA	138	129249 L SUCSPH	138 1	90.2
147857	DVNPT NK	345	128830 HMP HRBR	345 1	638.3
128842	NEPTCONV	345	128847 NWBRG	345 1	660.3
999860	RLND_INV	416	128860 RULND RD	345 1	568.0 / Pleasant Valley - Ruland Road DC (metered at Ruland Rd)
128880	SHMHVDCL	192	129459 SHOREHAM	138 1	329.5

DysingerEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, JUL 11 2011 16:09  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 11331  
 First violation - 691.4 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 11331 violations

Interface-1 Interface 1 DYSINGER EAS Init.Flow= 2132.20 TDF= 0.6554

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comments
			C: Contingency description	Flow	Rating	LODF	Init	Final	
1	691.4	2585.4	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1518.6	-1724.0	-0.29708	-0.15077	-827.1 -931.4	
			C:BUS:N.S._77 1724						
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16316	-664.8 -777.6	
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00469	245.1 248.4	
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA					
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.14707	838.7 940.4	
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00091	169.3 168.6	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15055	-828.1 -932.2	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0 -250.0	
2	760.1	2630.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.3	383.0	0.07856	0.06428	263.7 312.6	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.12460	-519.7 -614.4	
3	767.6	2635.3	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.07877	0.06428	263.7 313.1	
			C:SER:HCWC/NWES 1717						
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.03514	74.0 47.0	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.12460	-519.7 -615.3	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	0.00000	-45.4 -45.4	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
4	776.5	2641.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.2	383.0	0.07834	0.06428	263.7 313.6	
			C:SER:HC-WC_30&W-F_171 1711						
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	-0.00293	-7.0 -9.3	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.12460	-519.7 -616.4	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	0.00000	-45.4 -45.4	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
5	791.4	2650.9	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.8	-383.0	-0.07856	-0.06428	-261.3 -312.1	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11461	-0.12460	-519.7 -618.3	
6	798.8	2655.8	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.1	-383.0	-0.07877	-0.06428	-261.3 -312.6	
			C:SER:HCWC/NWES 1717						
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00558	-0.03514	74.0 45.9	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11477	-0.12460	-519.7 -619.2	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			-0.00933	0.00000	-45.4 -45.4	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
7	805.4	2660.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	319.7	383.0	0.07856	0.06428	263.7 315.5	
			C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35						
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1			0.11461	0.12460	488.7 589.0	
8	807.8	2661.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-319.7	-383.0	-0.07834	-0.06428	-261.3 -313.2	



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27	1134.2	2875.6	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1					264	
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13684	0.06428	264.2	337.1
28	1134.9	2876.0	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:SER:MEYER_HILLSD_68									1714	
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13684	0.06428	263.7	336.7
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.09582	0.00000	0.5	0.5
29	1136.5	2877.1	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1					284	
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13684	0.06428	263.7	336.8
30	1147.2	2884.1	L: 131342 BENET115	115	131347 HOWARD	115	1	123.2	159.0	0.03117	0.02237	87.5	113.2
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1					288	
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.13684	-0.06428	-261.3	-335.0
31	1176.4	2903.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.3	383.0	0.06691	0.06428	263.7	339.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1					277	
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.06156	-0.04278	-658.8	-709.2
32	1208.0	2923.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.1	383.0	0.06534	0.06428	263.7	341.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.05429	-0.01951	-743.2	-766.8
33	1213.1	2927.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-301.8	-383.0	-0.06691	-0.06428	-261.3	-339.2
			C:130755 OAKDL345	345	131128 LAPEER	345	1					277	
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.06156	-0.04278	-658.8	-710.7
34	1245.5	2948.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-301.6	-383.0	-0.06534	-0.06428	-261.3	-341.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.05429	-0.01951	-743.2	-767.5
35	1254.2	2954.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.04371	0.02899	83.5	119.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1325	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04916	0.29932	704.5	1079.9
36	1270.7	2965.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.3	-430.0	-0.08630			
			Base Case										
37	1291.5	2978.7	L: 130815 HINMN115	115	131611 HARIS115	115	1	-261.7	-306.0	-0.03428	-0.02593	-228.0	-261.5
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04092	0.20415	823.2	1086.9
38	1293.5	2980.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	291.6	383.0	0.07069	0.06428	263.7	346.9
			C:130774 BATH 115	115	131347 HOWARD	115	1					299	
			Open 130774 BATH 115	115	131347 HOWARD	115	1			-0.28676	-0.02237	-97.1	-126.0
39	1297.0	2982.3	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	234.2	280.0	0.03529	0.02669	199.6	234.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04212	0.20415	823.2	1088.0
40	1301.5	2985.3	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	107.5	153.0	0.03496	0.02715	76.0	111.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03824	0.20415	823.2	1088.9
41	1328.1	3002.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.0	1685.0	0.40808	0.29932	704.5	1102.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53277	0.20415	823.2	1094.3
42	1328.3	3002.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-289.1	-383.0	-0.07069	-0.06428	-261.3	-346.6
			C:130774 BATH 115	115	131347 HOWARD	115	1					299	
			Open 130774 BATH 115	115	131347 HOWARD	115	1			0.28676	-0.02237	-97.1	-126.8
43	1332.3	3005.4	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	288.8	383.0	0.07069	0.06428	263.7	349.4
			C:131342 BENET115	115	131347 HOWARD	115	1					472	
			Open 131342 BENET115	115	131347 HOWARD	115	1			0.28676	0.02237	87.5	117.3
45	1367.1	3028.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-286.4	-383.0	-0.07069	-0.06428	-261.3	-349.1
			C:131342 BENET115	115	131347 HOWARD	115	1					472	
			Open 131342 BENET115	115	131347 HOWARD	115	1			-0.28676	0.02237	87.5	118.1
47	1377.3	3034.9	L: 131342 BENET115	115	131347 HOWARD	115	1	116.1	159.0	0.03117	0.02237	87.5	118.3
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1					265	
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			-0.13684	-0.06428	-208.9	-297.4
49	1399.0	3049.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1428.2	-1725.0	-0.21218	-0.16204	-1086.0	-1312.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1					183	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.30372	-0.16509	-1126.7	-1357.7
50	1409.8	3056.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	308.3	430.0	0.08630			
			Base Case										
59	1495.9	3112.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	117.2	173.0	0.03733	0.02899	83.5	126.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04083	0.20415	823.2	1128.6

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60	1512.3	3123.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1086.0	-1331.0	-0.16204					
			Base Case													
65	1534.1	3137.7	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	297.6	430.0	0.08630					
			Base Case													
70	1556.6	3152.4	L: 135861 MORTIMER	115	136213	LAWLER-2	115	1	108.1	159.0	0.03270		0.02270	66.1	101.4	
			C:135860 LAWLER-1	115	135861	MORTIMER	115	1				765				
			Open 135860 LAWLER-1	115	135861	MORTIMER	115	1					-0.45215	-0.02211	-93.0	-127.4
79	1567.6	3159.6	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1399.0	-1725.0	-0.20794		-0.16204	-1086.0	-1340.0	
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1				185				
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1					0.29765	-0.15420	-1051.9	-1293.6
80	1572.6	3162.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1270.5	-1703.0	-0.27505		-0.22813	-970.7	-1329.5	
			C:130750 COOPC345	345	147833	MARCY T1	345	1				263				
			Open 130750 COOPC345	345	147833	MARCY T1	345	1					0.41671	-0.11260	-719.3	-896.3
81	1573.9	3163.8	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	108.7	159.0	0.03197		0.02603	92.1	133.0	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1				749				
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1					0.21881	0.02715	76.0	118.8
82	1576.9	3165.7	L: 130815 HINMN115	115	131611	HARIS115	115	1	-254.1	-306.0	-0.03294		-0.02593	-228.0	-268.9	
			C:130764 MEYER230	230	134750	DAIRY230	230	1				289				
			Open 130764 MEYER230	230	134750	DAIRY230	230	1					0.08122	-0.08630	-320.3	-456.4
83	1582.6	3169.5	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	226.3	280.0	0.03391		0.02669	199.6	241.8	
			C:130764 MEYER230	230	134750	DAIRY230	230	1				289				
			Open 130764 MEYER230	230	134750	DAIRY230	230	1					-0.08361	-0.08630	-320.3	-456.9
101	1606.5	3185.1	L: 130815 HINMN115	115	131611	HARIS115	115	1	-253.1	-306.0	-0.03294		-0.02593	-228.0	-269.7	
			C:131122 WTHRS230	230	134750	DAIRY230	230	1				461				
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1					-0.08122	0.08630	308.3	447.0
102	1612.2	3188.9	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	225.3	280.0	0.03391		0.02669	199.6	242.6	
			C:131122 WTHRS230	230	134750	DAIRY230	230	1				461				
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1					0.08361	0.08630	308.3	447.5
103	1613.7	3189.9	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-101.3	-173.0	-0.04444		-0.02948	-66.1	-113.6	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1				1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1					-0.04999	0.29932	704.5	1187.5
110	1633.0	3202.5	L: 130815 HINMN115	115	131611	HARIS115	115	1	-252.2	-306.0	-0.03294		-0.02593	-228.0	-270.4	
			C: 95976 STONYCRK	230	131122	WTHRS230	230	1				42				
			Open 95976 STONYCRK	230	131122	WTHRS230	230	1					-0.08122	0.08630	297.6	438.5
111	1633.4	3202.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-366.8	-540.0	-0.10604		-0.08630	-320.3	-461.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1				1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1					-0.06595	0.29932	704.5	1193.3
114	1638.7	3206.2	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	224.4	280.0	0.03391		0.02669	199.6	243.3	
			C: 95976 STONYCRK	230	131122	WTHRS230	230	1				42				
			Open 95976 STONYCRK	230	131122	WTHRS230	230	1					0.08361	0.08630	297.6	439.0
116	1643.9	3209.6	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	121.5	180.0	0.03559		0.02361	93.3	132.1	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1				1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1					0.04003	0.29932	704.5	1196.5
118	1652.1	3215.0	L: 130754 KINTI345	345	149000	ROCH 345	345	1	1131.4	1685.0	0.33509		0.20415	823.2	1160.5	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1				1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1					0.43748	0.29932	704.5	1199.0
126	1667.4	3225.0	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-84.5	-153.0	-0.04111		-0.02727	-51.9	-97.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1				1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1					-0.04624	0.29932	704.5	1203.5
128	1671.6	3227.8	L: 130815 HINMN115	115	131611	HARIS115	115	1	-250.9	-306.0	-0.03294		-0.02593	-228.0	-271.4	
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1				41				
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1					0.08122	-0.08630	-281.9	-426.2
129	1677.3	3231.5	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	223.1	280.0	0.03391		0.02669	199.6	244.3	
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1				41				
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1					-0.08361	-0.08630	-281.9	-426.7
130	1684.3	3236.2	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-373.3	-540.0	-0.09899		-0.08630	-320.3	-465.7	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1				281				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1					0.10185	-0.12460	-519.7	-729.5
132	1686.2	3237.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-371.4	-540.0	-0.10000		-0.08630	-320.3	-465.9	
			C:SER:HCWC/NWES									1717				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.02616	-0.03514	74.0	14.7
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1					NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1					0.10260	-0.12460	-519.7	-729.8
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1					NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					-0.00755	0.00000	-45.4	-45.4

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			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
135	1688.5	3238.9	L:	130815	HINMN115	115	131611	HARIS115	115	1	-250.4	-306.0	-0.03294	-0.02593	-228.0	-271.8			
			C:	130767	STOLE230	230	130770	SHLDN230	230	1	294								
			Open	130767	STOLE230	230	130770	SHLDN230	230	1				-0.08122	0.08630	275.1	420.8		
142	1694.2	3242.6	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	222.6	280.0	0.03391	0.02669	199.6	244.8			
			C:	130767	STOLE230	230	130770	SHLDN230	230	1	294								
			Open	130767	STOLE230	230	130770	SHLDN230	230	1				0.08361	0.08630	275.1	421.3		
144	1695.1	3243.2	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-372.5	-540.0	-0.09884	-0.08630	-320.3	-466.6			
			C:	SER:HC-WC_30&W-F_171							1711								
			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.03199	-0.00293	-7.0	-12.0		
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA								
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				0.10139	-0.12460	-519.7	-730.9		
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.00771	0.00000	-45.4	-45.4		
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
159	1715.6	3256.7	L:	95976	STONYCRK	230	130770	SHLDN230	230	1	-281.9	-430.0	-0.08630						
			Base Case																
160	1716.2	3257.1	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-370.1	-540.0	-0.09899	-0.08630	-320.3	-468.5			
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	35								
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1				-0.10185	0.12460	488.7	702.5		
165	1720.9	3260.1	L:	126294	PLTVLLEY	345	137455	ATHENS	345	1	-1377.5	-1725.0	-0.20192	-0.15420	-1051.9	-1317.2			
			C:	126294	PLTVLLEY	345	137451	LEEDS 3	345	1	183								
			Open	126294	PLTVLLEY	345	137451	LEEDS 3	345	1				0.28903	-0.16509	-1126.7	-1410.8		
179	1731.0	3266.8	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-368.6	-540.0	-0.09899	-0.08630	-320.3	-469.7			
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1458								
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				0.10185	-0.12460	-474.3	-690.0		
191	1746.6	3276.9	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	354.8	540.0	0.10604	0.08630	308.3	459.1			
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325								
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				0.06595	0.29932	704.5	1227.2		
216	1772.1	3293.7	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	95.2	153.0	0.03259	0.02715	76.0	124.1			
			C:	135872	SOUR-111	115	135873	SWDN-111	115	1	783								
			Open	135872	SOUR-111	115	135873	SWDN-111	115	1				0.20891	0.02603	92.1	138.2		
227	1778.9	3298.2	L:	135860	LAWLER-1	115	135861	MORTIMER	115	1	-125.7	-185.0	-0.03335	-0.02211	-93.0	-132.3			
			C:	135861	MORTIMER	115	136213	LAWLER-2	115	1	770								
			Open	135861	MORTIMER	115	136213	LAWLER-2	115	1				-0.49491	0.02270	66.1	106.4		
235	1784.8	3302.0	L:	130750	COOPC345	345	146754	MDTN TAP	345	1	1295.0	1793.0	0.27903	0.17622	842.1	1156.6			
			C:	125001	ROCK TAV	345	130750	COOPC345	345	2	69								
			Open	125001	ROCK TAV	345	130750	COOPC345	345	2				-0.62491	-0.16451	-724.8	-1018.4		
238	1790.7	3305.9	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-365.4	-540.0	-0.09748	-0.08630	-320.3	-474.9			
			C:	130754	KINTI345	345	149000	ROCH 345	345	1	273								
			Open	130754	KINTI345	345	149000	ROCH 345	345	1				-0.05478	0.20415	823.2	1188.8		
245	1794.9	3308.6	L:	130767	STOLE230	230	130770	SHLDN230	230	1	275.1	430.0	0.08630						
			Base Case																
247	1798.3	3310.9	L:	126294	PLTVLLEY	345	137455	ATHENS	345	1	-1363.9	-1725.0	-0.20077	-0.15420	-1051.9	-1329.2			
			C:	126294	PLTVLLEY	345	137451	LEEDS 3	345	2	184								
			Open	126294	PLTVLLEY	345	137451	LEEDS 3	345	2				0.28739	-0.16204	-1086.0	-1377.4		
256	1805.6	3315.6	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	361.3	540.0	0.09899	0.08630	308.3	464.2			
			C:	130757	WATRC345	345	135249	ARMENMTN	345	1	281								
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10185	-0.12460	-519.7	-744.6		
257	1806.2	3316.0	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	359.4	540.0	0.10000	0.08630	308.3	464.2			
			C:	SER:HCWC/NWES							1717								
			Open	130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.02616	-0.03514	74.0	10.5		
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA								
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10260	-0.12460	-519.7	-744.7		
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00755	0.00000	-45.4	-45.4		
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
265	1810.2	3318.7	L:	126294	PLTVLLEY	345	137455	ATHENS	345	1	-1051.9	-1331.0	-0.15420						
			Base Case																
279	1814.9	3321.7	L:	135851	SHEL-113	115	135874	SWDN-113	115	1	114.3	180.0	0.03622	0.02402	85.6	129.2			
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325								
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				0.04074	0.29932	704.5	1247.7		
286	1816.6	3322.8	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	360.5	540.0	0.09884	0.08630	308.3	465.1			
			C:	SER:HC-WC_30&W-F_171							1711								
			Open	135277	FALCONER	115	200579	WARREN	115	1				0.03199	-0.00293	-7.0	-12.4		

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			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10139	-0.12460	-519.7	-746.0		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00771	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
340	1835.6	3335.3	L: 137532 RTRDM1	115	137730	ROTRDM.2	230	2		-346.7	-402.0	-0.03015	-0.00789	-236.5	-251.0
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		0.13877	-0.11590	-428.0	-640.7		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.01297	-0.04825	-400.1	-488.7		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.03885	-0.15521	-928.1	-1213.0		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		-0.05287	0.00542	260.5	270.5		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		-0.00510	-0.15077	-827.1	-1103.9		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.01886	0.00000	3.8	3.8		
346	1837.5	3336.6	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		358.1	540.0	0.09899	0.08630	308.3	466.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10185	0.12460	488.7	717.6		
433	1847.7	3343.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		344.1	540.0	0.10604	0.08630	297.6	457.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.06595	0.29932	704.5	1257.5		
536	1852.3	3346.2	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		356.6	540.0	0.09899	0.08630	308.3	468.2
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.10185	-0.12460	-474.3	-705.1		
1169	1855.6	3348.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		263.7	383.0	0.06428			
			Base Case												
2143	1888.7	3370.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-519.7	-755.0	-0.12460			
			Base Case												
2690	1893.8	3373.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-261.3	-383.0	-0.06428			
			Base Case												
3570	1904.2	3380.2	L: 137451 LEEDS 3	345	147831	GILB 345	345	1		-1471.2	-1912.0	-0.23149	-0.15450	-982.8	-1277.0
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		0.11712	-0.11590	-428.0	-648.7		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.64409	-0.04825	-400.1	-492.0		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.17080	-0.15521	-928.1	-1223.6		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.04088	0.00542	260.5	270.8		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.04010	-0.15077	-827.1	-1114.2		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.12264	0.00000	3.8	3.8		
3615	1913.5	3386.3	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		348.7	540.0	0.10000	0.08630	297.6	462.7
			C:SER:HCWC/NWES					1717							
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.02616	-0.03514	74.0	6.7		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10260	-0.12460	-519.7	-758.1		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00755	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3617	1913.9	3386.6	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		353.4	540.0	0.09748	0.08630	308.3	473.5
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.05478	0.20415	823.2	1213.9		
3618	1914.0	3386.7	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		350.5	540.0	0.09899	0.08630	297.6	462.8
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10185	-0.12460	-519.7	-758.1		
3629	1916.8	3388.5	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1		-100.2	-173.0	-0.03796	-0.02948	-66.1	-122.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		-0.04152	0.20415	823.2	1214.5		
3642	1925.1	3394.0	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		349.7	540.0	0.09884	0.08630	297.6	463.7
			C:SER:HC-WC_30&W-F_171					1711							
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.03199	-0.00293	-7.0	-12.7		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10139	-0.12460	-519.7	-759.5		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00771	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3668	1945.9	3407.6	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		347.4	540.0	0.09899	0.08630	297.6	465.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10185	0.12460	488.7	731.1		
3682	1952.1	3411.6	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1		120.7	180.0	0.03039	0.02361	93.3	139.4





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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10260	-0.12460	-519.7	-777.6		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00755	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3748	2072.2	3490.4	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-334.9	-540.0	-0.09899	-0.08630	-281.9	-460.8
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10185	-0.12460	-519.7	-777.9		
3753	2083.6	3497.9	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-334.1	-540.0	-0.09884	-0.08630	-281.9	-461.8
			C:SER:HC-WC_30&W-F_171						1711						
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.03199	-0.00293	-7.0	-13.1		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10139	-0.12460	-519.7	-779.3		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00771	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3756	2084.9	3498.7	L: 131018 LOUNS115	115	131850	CNYOG115	115	1		21.6	143.0	0.05822	0.03872	-2.0	78.7
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.09271	-0.21033	-254.7	-693.2		
3757	2085.4	3499.0	L: 135850 SOUR-114	115	135861	MORTIMER	115	1		85.7	153.0	0.03226	0.02715	76.0	132.6
			C:135861 MORTIMER	115	135873	SWDN-111	115	1	768						
			Open 135861 MORTIMER	115	135873	SWDN-111	115	1		-0.18722	-0.02727	-51.9	-108.7		
3765	2096.7	3506.4	L: 125001 ROCK TAV	345	130750	COOPC345	345	2		-1223.6	-1793.0	-0.27155	-0.16451	-724.8	-1069.7
			C:SER:CMT34&MTR34						1703						
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.56506	0.17622	842.1	1211.5		
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.05249	-0.14215	-438.7	-736.8		
3769	2104.2	3511.3	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-331.7	-540.0	-0.09899	-0.08630	-281.9	-463.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.10185	0.12460	488.7	750.8		
3770	2107.5	3513.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		365.7	540.0	0.08272	0.08630	308.3	490.2
			C:BUS:WATERCURE_345						1742						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.05113	-0.12460	-519.7	-782.3		
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.11608	-0.08574	265.0	84.3		
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.04425	0.00000	-0.0	-0.0		
3778	2118.9	3521.0	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-330.3	-540.0	-0.09899	-0.08630	-281.9	-464.8
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.10185	-0.12460	-474.3	-738.3		
3780	2121.2	3522.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1		-19.5	-143.0	-0.05822	-0.03872	4.1	-78.0
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.09271	-0.21033	-254.7	-700.9		
3782	2124.2	3524.5	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1		-78.6	-173.0	-0.04444	-0.02948	-43.4	-106.0
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.04999	0.29932	704.5	1340.3		
3787	2137.7	3533.3	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1		488.7	755.0	0.12460			
			Base Case												
3788	2138.5	3533.8	L: 130767 STOLE230	230	130770	SHLDN230	230	1		326.1	540.0	0.10000	0.08630	275.1	459.7
			C:SER:HCWC/NWES						1717						
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.02616	-0.03514	74.0	-1.2		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10260	-0.12460	-519.7	-786.1		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00755	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3790	2141.3	3535.7	L: 130767 STOLE230	230	130770	SHLDN230	230	1		328.0	540.0	0.09899	0.08630	275.1	459.9
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10185	-0.12460	-519.7	-786.5		
3791	2148.9	3540.6	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1053.6	-1703.0	-0.30222	-0.22813	-970.7	-1460.9
			C:130753 FRASR345	345	147831	GILB 345	345	1	271						
			Open 130753 FRASR345	345	147831	GILB 345	345	1		-0.36545	0.20275	226.7	662.3		
3793	2149.9	3541.3	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		226.2	336.0	0.05105	0.02202	106.9	154.2
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	264						
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.45165	0.06428	264.2	402.4		
3794	2150.3	3541.5	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		226.2	336.0	0.05105	0.02202	106.9	154.3
			C:SER:MEYER_HILLSD_68						1714						
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1		0.45165	0.06428	263.7	401.9		
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.41293	0.00000	0.5	0.5		

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3797	2152.4	3542.9	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	113.4	180.0	0.03093	0.02402	85.6	137.3
			C:130754 KINTI345	345	149000 ROCH 345	345	1						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03384	0.20415	823.2	1262.6
3798	2152.8	3543.2	L: 130767 STOLE230	230	130770 SHLDN230	230	1	327.2	540.0	0.09884	0.08630	275.1	460.9
			C:SER:HC-WC_30&W-F_171										
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03199	-0.00293	-7.0	-13.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10139	-0.12460	-519.7	-787.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00771	0.00000	-45.4	-45.4
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3799	2154.4	3544.3	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	226.0	336.0	0.05105	0.02202	106.9	154.3
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45165	0.06428	263.7	402.2
3801	2156.2	3545.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-352.1	-540.0	-0.08713	-0.08630	-320.3	-506.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.04276	-0.01951	-743.2	-785.3
3804	2163.8	3550.4	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-339.5	-540.0	-0.09265	-0.08630	-320.3	-507.1
			C:135272-135289										
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			-0.30709	0.02066	62.3	107.0
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			0.00496	-0.00117	4.5	1.9
			Open 135272 DUGN-157	115	135289 NILE115	115	1			-0.04921	0.00000	1.2	1.2
3809	2173.2	3556.6	L: 130767 STOLE230	230	130770 SHLDN230	230	1	324.9	540.0	0.09899	0.08630	275.1	462.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10185	0.12460	488.7	759.4
3811	2176.2	3558.5	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	224.9	336.0	0.05105	0.02202	106.9	154.8
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1						
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.45165	-0.06428	-261.3	-401.1
3812	2179.1	3560.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1235.9	1724.0	0.22401	0.14707	838.7	1159.2
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.23695	-0.11590	-428.0	-680.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.14231	-0.04825	-400.1	-505.3
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.34308	-0.15521	-928.1	-1266.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.08889	0.00542	260.5	272.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.06737	-0.15077	-827.1	-1155.7
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.19736	0.00000	3.8	3.8
3814	2184.7	3564.1	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-327.0	-540.0	-0.09748	-0.08630	-281.9	-470.5
			C:130754 KINTI345	345	149000 ROCH 345	345	1						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.05478	0.20415	823.2	1269.2
3816	2188.0	3566.3	L: 130767 STOLE230	230	130770 SHLDN230	230	1	323.4	540.0	0.09899	0.08630	275.1	463.9
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10185	-0.12460	-474.3	-746.9
3821	2192.6	3569.3	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	87.0	153.0	0.03011	0.02715	76.0	135.5
			C:130764 MEYER230	230	134750 DAIRY230	230	1						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1			-0.03425	-0.08630	-320.3	-509.6
3827	2205.8	3577.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	75.9	153.0	0.03496	0.02715	76.0	135.9
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03824	-0.20415	3.4	-446.9
3828	2206.2	3578.2	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	86.6	153.0	0.03011	0.02715	76.0	135.9
			C:131122 WTHRS230	230	134750 DAIRY230	230	1						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			0.03425	0.08630	308.3	498.7
3832	2212.2	3582.2	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.1	-1345.0	-0.17084	-0.11260	-719.3	-968.4
			C:130750 COOPC345	345	130753 FRASR345	345	1						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.25527	-0.22813	-970.7	-1475.4
3833	2218.4	3586.2	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	86.2	153.0	0.03011	0.02715	76.0	136.3
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			0.03425	0.08630	297.6	489.1
3838	2236.2	3597.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	85.7	153.0	0.03011	0.02715	76.0	136.7
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			-0.03425	-0.08630	-281.9	-474.9
3839	2237.2	3598.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	354.9	540.0	0.08272	0.08630	297.6	490.7
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05113	-0.12460	-519.7	-798.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11608	-0.08574	265.0	73.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04425	0.00000	-0.0	-0.0

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3843	2244.0	3603.0*L:	135850 SOUR-114	115	135861 MORTIMER	115	1	85.4	153.0	0.03011	0.02715	76.0	136.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1						294
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.03425	0.08630	275.1	468.8
3852	2253.1	3608.9 L:	95593 CHERYFLT	345	200769 HOMER CY	345	1	-474.3	-755.0	-0.12460			
			Base Case										
3854	2254.8	3610.1 L:	130767 STOLE230	230	130770 SHLDN230	230	1	320.2	540.0	0.09748	0.08630	275.1	469.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05478	0.20415	823.2	1283.5
3861	2274.1	3622.7 L:	137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.5	560.0	0.05210	0.01325	256.8	287.0
			C:BUS:N.S._99										1725
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.11590	-428.0	-691.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	-0.04825	-400.1	-509.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.15521	-928.1	-1281.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00542	260.5	272.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.15077	-827.1	-1170.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8
3862	2274.1	3622.7 L:	137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.5	560.0	0.05210	0.01325	256.8	287.0
			C:BUS:N.S._99										1725
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.11590	-428.0	-691.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	-0.04825	-400.1	-509.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.15521	-928.1	-1281.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00542	260.5	272.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.15077	-827.1	-1170.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8
3864	2278.1	3625.3 L:	130815 HINMN115	115	131611 HARIS115	115	1	-227.9	-306.0	-0.03428	-0.02593	-228.0	-287.1
			C:130754 KINTI345	345	147834 NIAG 345	345	1						272
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			0.04092	-0.20415	3.4	-461.7
3867	2283.6	3628.9 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	199.4	280.0	0.03529	0.02669	199.6	260.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1						272
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04212	-0.20415	3.4	-462.8
3871	2293.4	3635.4 L:	131122 WTHRS230	230	134750 DAIRY230	230	1	327.5	540.0	0.09265	0.08630	308.3	506.3
			C:135272-135289										1890
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30709	0.02066	62.3	109.7
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00496	-0.00117	4.5	1.8
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04921	0.00000	1.2	1.2
3872	2293.6	3635.5*L:	131122 WTHRS230	230	134750 DAIRY230	230	1	327.5	540.0	0.09265	0.08630	308.3	506.3
			C:135289 NILE115	115	147949 WELLSVLE	115	1						558
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30736	0.02066	62.3	109.7
3876	2298.6	3638.8 L:	149000 ROCH 345	345	149001 PANNELL3	345	2	643.3	1685.0	0.45317	0.25265	358.6	939.3
			C:149000 ROCH 345	345	149001 PANNELL3	345	1						1390
			Open 149000 ROCH 345	345	149001 PANNELL3	345	1			0.79631	0.25182	357.5	936.4
3877	2301.1	3640.4 L:	149000 ROCH 345	345	149001 PANNELL3	345	1	642.9	1685.0	0.45287	0.25182	357.5	937.0
			C:149000 ROCH 345	345	149001 PANNELL3	345	2						1391
			Open 149000 ROCH 345	345	149001 PANNELL3	345	2			0.79577	0.25265	358.6	940.0
3879	2304.5	3642.7*L:	130815 HINMN115	115	135452 LOCKPORT	115	1	210.4	280.0	0.03022	0.02669	199.6	261.1
			C:147842 NIAGAR2W	230	147850 NIAG115E	115	1						1338
			Open 147842 NIAGAR2W	230	147850 NIAG115E	115	1			0.11722	0.03009	92.2	161.5
3885	2329.3	3658.9 L:	130750 COOPC345	345	130753 FRASR345	345	1	-1117.8	-1703.0	-0.25125	-0.22813	-970.7	-1502.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						1086
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.14962	-0.15450	-982.8	-1342.7
3886	2329.4	3658.9 L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.7	-1725.0	-0.19201	-0.16204	-1086.0	-1463.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						63
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.23309	-0.12858	-822.7	-1122.2
3891	2340.5	3666.2 L:	130754 KINTI345	345	149000 ROCH 345	345	1	823.2	1301.0	0.20415			
			Base Case										
3893	2355.5	3676.1 L:	135861 MORTIMER	115	135874 SWDN-113	115	1	-74.8	-153.0	-0.03318	-0.02577	-45.0	-105.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.03630	0.20415	823.2	1304.1
3896	2371.9	3686.8 L:	130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.4	-336.0	-0.05086	-0.02180	-95.9	-147.6
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1						264
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			-0.45205	0.06428	264.2	416.7
3897	2372.3	3687.1 L:	130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.3	-336.0	-0.05086	-0.02180	-95.9	-147.6
			C:SER:MEYER_HILLSD_68										1714
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.45205	0.06428	263.7	416.2
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			-0.41371	0.00000	0.5	0.5

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3900	2376.5	3689.8	L: 130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.1	-336.0	-0.05086	-0.02180	-95.9	-147.7
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.45205	0.06428	263.7	416.5
3923	2398.3	3704.1	L: 130826 MEYER115	115	131343 MEYER M4	34.5	1	-214.0	-336.0	-0.05086	-0.02180	-95.9	-148.2
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1						
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			0.45205	-0.06428	-261.3	-415.4
3924	2400.1	3705.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	83.4	173.0	0.03733	0.02899	83.5	153.1
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04083	-0.20415	3.4	-486.6
3928	2407.2	3710.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	702.6	1685.0	0.40808	0.29932	704.5	1425.0
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.53277	-0.20415	3.4	-488.0
3933	2409.2	3711.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	316.8	540.0	0.09265	0.08630	297.6	505.5
			C:135272-135289										
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30709	0.02066	62.3	112.1
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00496	-0.00117	4.5	1.6
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04921	0.00000	1.2	1.2
3935	2409.4	3711.4*	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	316.8	540.0	0.09265	0.08630	297.6	505.5
			C:135289 NILE115	115	147949 WELLSVLE	115	1						
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30736	0.02066	62.3	112.1
3944	2418.2	3717.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	95.3	173.0	0.03215	0.02899	83.5	153.7
			C:130764 MEYER230	230	134750 DAIRY230	230	1						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1			-0.03657	-0.08630	-320.3	-529.0
3951	2426.6	3722.7	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-339.3	-540.0	-0.08272	-0.08630	-281.9	-491.4
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.05113	-0.12460	-519.7	-822.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11608	-0.08574	265.0	56.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04425	0.00000	-0.0	-0.0
3954	2431.9	3726.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	94.8	173.0	0.03215	0.02899	83.5	154.1
			C:131122 WTHRS230	230	134750 DAIRY230	230	1						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			0.03657	0.08630	308.3	518.2
3962	2444.1	3734.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	94.4	173.0	0.03215	0.02899	83.5	154.4
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			0.03657	0.08630	297.6	508.5
3979	2461.9	3745.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	93.9	173.0	0.03215	0.02899	83.5	154.9
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			-0.03657	-0.08630	-281.9	-494.4
3998	2469.7	3750.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	93.6	173.0	0.03215	0.02899	83.5	155.1
			C:130767 STOLE230	230	130770 SHLDN230	230	1						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.03657	0.08630	275.1	488.2
4015	2491.8	3765.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1087.7	-1703.0	-0.24694	-0.22813	-970.7	-1539.2
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			0.03126	-0.11590	-428.0	-716.8
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.12269	-0.04825	-400.1	-520.4
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.05276	-0.15521	-928.1	-1314.9
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.00201	0.00542	260.5	274.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00725	-0.15077	-827.1	-1202.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.00445	0.00000	3.8	3.8
4035	2505.2	3774.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1204.1	-1725.0	-0.20794	-0.16204	-1086.0	-1491.9
			C:137451 LEEDS 3	345	137455 ATHENS	345	1						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.29765	0.15420	396.8	783.1
4041	2507.1	3775.4	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-614.4	-927.0	-0.12467	-0.12460	-519.7	-832.1
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.01330	0.00294	753.9	761.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.01330	0.00255	656.5	662.9
			Open 156 MCY765SW	765	147827 MARCY765	765	1						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00275	-22.3	-29.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.06171	0.00000	-157.9	-157.9
			Open 147828 MASS 765	765	147837 MASS230A	230	1						
			Open 158 MS765SW2	765	147828 MASS 765	765	1						
			Open 157 MS765SW1	765	147828 MASS 765	765	1						
			Decrease bus 180001 BEA-DLX		13.8 generation by					100.0 percent dispatch			

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			Set bus 181319 CHAT G3	120	load to	357.0 MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0 percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0 MW dispatch						
4052	2509.3	3776.9	L: 130767 STOLE230	230	130770 SHLDN230	230 1	332.4	540.0	0.08272	0.08630	275.1	491.7
			C:BUS:WATERCURE_345			1742						
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1	-0.05113	-0.12460		-519.7	-832.3	
			Open 130757 WATRC345	345	130768 WATRC230	230 1	0.11608	-0.08574		265.0	49.8	
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.04425	0.00000		-0.0	-0.0	
4069	2514.5	3780.3	L: 135858 GOLAH115	115	135862 MUMFORD1	115 1	-77.6	-173.0	-0.03796	-0.02948	-43.4	-117.5
			C:130754 KINTI345	345	149000 ROCH 345	345 1	273					
			Open 130754 KINTI345	345	149000 ROCH 345	345 1	-0.04152	0.20415		823.2	1336.5	
4138	2529.8	3790.3	L: Interface 73 MarcySouthS				1690.0	2552.0	0.34073			
			Base Case									
4186	2534.8	3793.6	L: 130836 N.WAV115	115	131018 LOUNS115	115 1	25.4	173.0	0.05822	0.03872	1.8	100.0
			C:130755 OAKDL345	345	130757 WATRC345	345 1	274					
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.09271	-0.21033		-254.7	-787.9	
5701	2560.7	3810.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115 1	91.5	173.0	0.03183	0.02899	83.5	157.8
			C:135850 SOUR-114	115	135861 MORTIMER	115 1	749					
			Open 135850 SOUR-114	115	135861 MORTIMER	115 1	0.10452	0.02715		76.0	145.5	
5708	2562.6	3811.8	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115 1	92.4	173.0	0.03147	0.02899	83.5	157.8
			C:135851 SHEL-113	115	135874 SWDN-113	115 1	751					
			Open 135851 SHEL-113	115	135874 SWDN-113	115 1	0.10304	0.02402		85.6	147.1	
5735	2578.3	3822.1	L: 95976 STONYCRK	230	130770 SHLDN230	230 1	-301.1	-540.0	-0.09265	-0.08630	-281.9	-504.4
			C:135272-135289			1890						
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	-0.30709	0.02066		62.3	115.6	
			Open 135289 NILE115	115	135360 NILEXFR	34.5 1	0.00496	-0.00117		4.5	1.4	
			Open 135272 DUGN-157	115	135289 NILE115	115 1	-0.04921	0.00000		1.2	1.2	
5737	2578.5	3822.2	*L: 95976 STONYCRK	230	130770 SHLDN230	230 1	-301.1	-540.0	-0.09265	-0.08630	-281.9	-504.5
			C:135289 NILE115	115	147949 WELLSVLE	115 1	558					
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	-0.30736	0.02066		62.3	115.6	
5744	2582.4	3824.8	L: 135861 MORTIMER	115	135873 SWDN-111	115 1	-67.9	-153.0	-0.03297	-0.02727	-51.9	-122.3
			C:135850 SOUR-114	115	135861 MORTIMER	115 1	749					
			Open 135850 SOUR-114	115	135861 MORTIMER	115 1	-0.21009	0.02715		76.0	146.1	
5751	2588.5	3828.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	304.8	478.0	0.06691	0.06428	264.2	430.6
			C:130755 OAKDL345	345	131128 LAPEER	345 1	277					
			Open 130755 OAKDL345	345	131128 LAPEER	345 1	-0.06156	-0.04278		-658.8	-769.6	
5808	2612.5	3844.5	L: 146758 CHESTER	138	146771 SHOEM138	138 1	-195.3	-317.0	-0.04657	-0.02116	-116.9	-172.2
			C:125001 ROCK TAV	345	146754 MDTN TAP	345 1	70					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345 1	0.17873	-0.14215		-438.7	-810.1	
5811	2617.3	3847.6	L: 137451 LEEDS 3	345	147831 GILB 345	345 1	-1332.9	-1912.0	-0.22125	-0.15450	-982.8	-1387.2
			C:BUS:N.S._77			1724						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345 1	0.20828	-0.16316		-664.8	-1091.8	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115 1	0.17586	0.00469		245.1	257.4	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345 01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345 1	-0.22922	0.14707		838.7	1223.6	
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1	-0.13646	-0.00091		169.3	166.9	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 1	0.00000	-0.15055		-828.1	-1222.1	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 2	0.15776	0.00000		-250.0	-250.0	
5829	2629.8	3855.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	285.4	478.0	0.07325	0.06428	264.2	433.3
			C:147834 NIAG 345	345	149000 ROCH 345	345 1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345 1	0.02998	0.29932		704.5	1491.6	
5830	2630.1	3856.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	292.1	478.0	0.07069	0.06428	264.2	433.3
			C:130774 BATH 115	115	131347 HOWARD	115 1	299					
			Open 130774 BATH 115	115	131347 HOWARD	115 1	-0.28676	-0.02237		-97.1	-155.9	
5840	2637.9	3861.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	329.9	478.0	0.05616	0.06428	264.2	433.8
			C:BUS:WATERCURE_345			1742						
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1	-0.04479	-0.12460		-519.7	-848.3	
			Open 130757 WATRC345	345	130768 WATRC230	230 1	0.15980	-0.08574		265.0	38.8	
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.03638	0.00000		-0.0	-0.0	
5848	2639.7	3862.3	L: 130764 MEYER230	230	131343 MEYER M4	34.5 1	201.2	336.0	0.05105	0.02202	106.9	165.0
			C:130751 CNDGUA_T	230	130764 MEYER230	230 1	265					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230 1	-0.45165	-0.06428		-208.9	-378.5	
5877	2652.1	3870.5	L: 130767 STOLE230	230	130770 SHLDN230	230 1	294.3	540.0	0.09265	0.08630	275.1	504.0
			C:135272-135289			1890						
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	0.30709	0.02066		62.3	117.1	

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			Open 135289 NILE115	115	135360 NILEXFR	34.5	1		-0.00496	-0.00117	4.5	1.3	
			Open 135272 DUGN-157	115	135289 NILE115	115	1		0.04921	0.00000	1.2	1.2	
5879	2652.3	3870.6	L: 130767 STOLE230	230	130770 SHLDN230	230	1	294.3	540.0	0.09265	0.08630	275.1	504.0
			C:135289 NILE115	115	147949 WELLSVLE	115	1					558	
			Open 135289 NILE115	115	147949 WELLSVLE	115	1		0.30736	0.02066	62.3	117.1	
5888	2654.1	3871.7	*L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	304.6	478.0	0.06534	0.06428	264.2	434.8
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.05429	-0.01951	-743.2	-795.0	
5949	2667.7	3880.7	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-268.4	-478.0	-0.07856	-0.06428	-208.9	-380.3
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					281	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11461	-0.12460	-519.7	-852.1	
5974	2670.0	3882.2	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-267.7	-478.0	-0.07877	-0.06428	-208.9	-380.5
			C:SER:HCWC/NWES									1717	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.00558	-0.03514	74.0	-19.9	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11477	-0.12460	-519.7	-852.3	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00933	0.00000	-45.4	-45.4	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
6112	2680.0	3888.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1047.9	-1703.0	-0.24444	-0.22813	-970.7	-1582.1
			C:BUS:N.S._77									1724	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.04149	-0.16316	-664.8	-1102.1	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.02355	0.00469	245.1	257.7	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.06564	0.14707	838.7	1232.9	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.00083	-0.00091	169.3	166.8	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.00000	-0.15055	-828.1	-1231.6	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.00064	0.00000	-250.0	-250.0	
7218	2685.2	3892.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1234.3	-1725.0	-0.18273	-0.15420	-1051.9	-1465.9
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1					63	
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.22182	-0.12858	-822.7	-1168.0	
7389	2689.5	3894.9	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-267.3	-478.0	-0.07834	-0.06428	-208.9	-381.7
			C:SER:HC-WC_30&W-F_171									1711	
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.04698	-0.00293	-7.0	-14.9	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11394	-0.12460	-519.7	-854.8	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00956	0.00000	-45.4	-45.4	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
7548	2701.0	3902.5	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-590.5	-927.0	-0.12460	-0.12460	-519.7	-856.2
			C:GEN:9 MI PT2									1671	
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1126.9	MW	dispatch				
7549	2701.1	3902.5	L: 95646 DEANWIND	230	130772 SHRED230	230	1	143.0	440.0	0.10995	0.05660	78.4	231.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1					274	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.25366	-0.21033	-254.7	-822.8	
7582	2713.0	3910.4	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-264.9	-478.0	-0.07856	-0.06428	-208.9	-383.3
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		-0.11461	0.12460	488.7	826.7	
7600	2720.1	3915.0	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-588.1	-927.0	-0.12460	-0.12460	-519.7	-858.6
			C:SIN:250									1787	
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
7611	2724.4	3917.8	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-62.4	-153.0	-0.03327	-0.02727	-51.9	-126.2
			C:135861 MORTIMER	115	135874 SWDN-113	115	1					769	
			Open 135861 MORTIMER	115	135874 SWDN-113	115	1		0.23295	-0.02577	-45.0	-115.2	
7619	2727.1	3919.6	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	-4.6	143.0	0.05413	0.03872	-2.0	103.6
			C:BUS:WATERCURE_345									1742	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.04975	-0.12460	-519.7	-859.5	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.10747	-0.08574	265.0	31.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.04790	0.00000	-0.0	-0.0	
7622	2727.4	3919.8	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1118.0	-1724.0	-0.22218	-0.15077	-827.1	-1238.3
			C:137452 N.SCOT77	345	137453 N.SCOT99	345	1					1087	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.43762	-0.16316	-664.8	-1109.8	
7624	2728.0	3920.2	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-587.1	-927.0	-0.12460	-0.12460	-519.7	-859.6
			C:GEN:SEABROOK									1683	

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				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
7625	2728.0	3920.2	L:	130757 WATRC345	345	135249	ARMENMTN	345	1	-587.1	-927.0	-0.12460	-0.12460	-519.7	-859.6
				C:GEN:SEAB&OMS					1685						
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2	-0.00000	0.00000	-0.0	-0.0	-0.0	-0.0
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch							
7644	2734.0	3924.1	L:	130751 CNDGUA_T	230	130764	MEYER230	230	1	-263.2	-478.0	-0.07856	-0.06428	-208.9	-384.6
				C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458					
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1	0.11461	-0.12460	-474.3	-814.9		
7666	2746.2	3932.1	L:	131243 SLEIG115	115	149004	S121 B#2	115	1	-98.4	-189.0	-0.03300	-0.02279	-92.8	-155.4
				C:136150 CLAY	345	149001	PANNELL3	345	2	795					
				Open 136150 CLAY	345	149001	PANNELL3	345	2	0.03851	-0.26493	-145.8	-873.4		
7680	2751.3	3935.5	L:	131243 SLEIG115	115	149004	S121 B#2	115	1	-98.4	-189.0	-0.03294	-0.02279	-92.8	-155.5
				C:136150 CLAY	345	149001	PANNELL3	345	1	794					
				Open 136150 CLAY	345	149001	PANNELL3	345	1	0.03843	-0.26406	-145.4	-871.9		
7682	2751.7	3935.8	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1043.8	-1703.0	-0.23955	-0.22813	-970.7	-1598.5
				C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	63					
				Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1	0.08883	-0.12858	-822.7	-1176.6		
7692	2755.9	3938.5	L:	95593 CHERYFLT	345	135249	ARMENMTN	345	1	583.4	927.0	0.12467	0.12460	488.7	832.0
				C:HQ-NY-765-New					1887						
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1	0.01330	0.00294	753.9	762.0		
				Open 147827 MARCY765	765	147833	MARCY T1	345	2	0.01330	0.00255	656.5	663.5		
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1	-0.00000	-0.00275	-22.3	-29.9		
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1	-0.06171	0.00000	-157.9	-157.9		
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
7694	2757.2	3939.4	L:	131018 LOUNSI15	115	131850	CNYOG115	115	1	-36.8	143.0	0.06520	0.03872	-2.0	104.8
				C:BUS:WATERCURE_230					1743						
				Open 95646 DEANWIND	230	130768	WATRC230	230	1	-0.22225	-0.05660	-36.7	-192.7		
				Open 130757 WATRC345	345	130768	WATRC230	230	1	-0.16219	-0.08574	265.0	28.6		
				Open 130763 HILSD230	230	130768	WATRC230	230	1	0.11575	0.00000	0.4	0.4		
7715	2765.3	3944.7	L:	137200 EDIC	345	147833	MARCY T1	345	1	745.4	1793.0	0.37885	0.27732	108.5	875.4
				C:SIN:160					1780						
				Open 137200 EDIC	345	137452	N.SCOT77	345	1	0.69034	0.14707	838.7	1245.4		
				Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1	0.59313	0.00000	97.3	97.3		
				Open 137235 PORTER 1	115	137246	VALLEY	115	1	0.00280	-0.00014	43.6	43.2		
7716	2765.3	3944.7	L:	137200 EDIC	345	147833	MARCY T1	345	1	745.4	1793.0	0.37885	0.27732	108.5	875.4
				C:SIN:150					1779						
				Open 137200 EDIC	345	137452	N.SCOT77	345	1	0.69034	0.14707	838.7	1245.4		
				Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1	0.59335	0.00000	97.3	97.3		
				Open 137235 PORTER 1	115	147905	ILION	115	1	0.00187	-0.00008	49.4	49.2		
7717	2765.4	3944.7	L:	130765 OAKDL230	230	130772	SHRED230	230	1	-135.9	-440.0	-0.10995	-0.05660	-71.3	-227.9
				C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
				Open 130755 OAKDL345	345	130757	WATRC345	345	1	0.25366	-0.21033	-254.7	-836.4		
7718	2765.8	3945.0	L:	130757 WATRC345	345	135249	ARMENMTN	345	1	-582.4	-927.0	-0.12460	-0.12460	-519.7	-864.3
				C:GEN:MILLST 3					1682						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
7719	2765.8	3945.0	L:	130757 WATRC345	345	135249	ARMENMTN	345	1	-582.4	-927.0	-0.12460	-0.12460	-519.7	-864.3
				C:GEN:MLS3&OMS					1684						
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2	-0.00000	0.00000	-0.0	-0.0		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
7720	2766.1	3945.2	L:	130848 S.OWE115	115	131850	CNYOG115	115	1	6.7	-143.0	-0.05413	-0.03872	4.1	-103.0
				C:BUS:WATERCURE_345					1742						
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1	0.04975	-0.12460	-519.7	-864.3		
				Open 130757 WATRC345	345	130768	WATRC230	230	1	0.10747	-0.08574	265.0	27.8		
				Open 130755 OAKDL345	345	130757	WATRC345	345	1	0.04790	0.00000	-0.0	-0.0		
7725	2768.2	3946.5	L:	130765 OAKDL230	230	130838	OAKDL115	115	1	135.6	440.0	0.10995	0.05660	71.0	227.7

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			C:130755 OAKDL345	345	130757 WATRC345	345	1	274							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.25366	-0.21033	-254.7	-836.9
7760	2779.4	3953.9	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-554.6	-927.0	-0.13400		-0.12460	-519.7	-866.0
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289							
			Open 130764 MEYER230	230	134750 DAIRY230	230	1					0.10893	-0.08630	-320.3	-560.2
7800	2789.2	3960.3	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-553.3	-927.0	-0.13400		-0.12460	-519.7	-867.2
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461							
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1					-0.10893	0.08630	308.3	549.0
7803	2789.6	3960.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		38.9	-143.0	-0.06520		-0.03872	4.1	-103.9
			C:BUS:WATERCURE_230					1743							
			Open 95646 DEANWIND	230	130768 WATRC230	230	1					0.22225	-0.05660	-36.7	-194.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1					0.16219	-0.08574	265.0	25.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1					-0.11575	0.00000	0.4	0.4
7850	2796.0	3964.7	L: 137200 EDIC	345	147833 MARCY T1	345	1		714.9	1793.0	0.38559		0.27732	108.5	883.9
			C:136156 VOLNEY	345	147833 MARCY T1	345	1	811							
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1					0.86552	0.12510	700.6	1050.3
7856	2796.7	3965.2	L: 130762 GARDV230	230	130767 STOLE230	230	1		248.7	478.0	0.08200		0.05773	99.4	260.8
			C:130766 ROBIN230	230	130767 STOLE230	230	1	292							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1					0.84957	0.02857	175.7	255.6
7866	2797.9	3966.0	*L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-552.1	-927.0	-0.13400		-0.12460	-519.7	-868.3
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42							
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1					-0.10893	0.08630	297.6	539.1
7937	2802.1	3968.7	L: 130787 CODNT115	115	130830 MONTR115	115	1		2.3	-144.0	-0.05221		-0.03504	23.1	-75.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.08164	-0.21033	-254.7	-844.1
9095	2810.2	3974.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1196.6	-1725.0	-0.18804		-0.16204	-1086.0	-1541.3
			C:130750 COOPC345	345	130753 FRASR345	345	1	259							
			Open 130750 COOPC345	345	130753 FRASR345	345	1					0.11396	-0.22813	-970.7	-1611.8
9265	2814.9	3977.2	L: 130762 GARDV230	230	130767 STOLE230	230	1		241.6	478.0	0.08396		0.05773	99.4	261.9
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	293							
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1					-0.47473	-0.05526	-299.7	-455.3
9331	2819.0	3979.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		840.4	1685.0	0.29961		0.29932	704.5	1548.2
			C:HQ-NY-765-New					1887							
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					0.05323	0.00294	753.9	762.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.05323	0.00255	656.5	663.7
			Open 156 MCY765SW	765	147827 MARCY765	765	1		NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.00275	-22.3	-30.1
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1					-0.04819	0.00000	-157.9	-157.9
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1		NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1		NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0									
			Set bus 181319 CHAT G3	120	load to	357.0									
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0									
			Set bus 181419 CHAT G4	120	load to	357.0									
9342	2819.6	3980.2	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1033.7	-1703.0	-0.23736		-0.22813	-970.7	-1614.0
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.05592	-0.16509	-1126.7	-1592.2
9373	2821.1	3981.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-65.9	-173.0	-0.03796		-0.02948	-66.1	-149.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	272							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1					0.04152	-0.20415	3.4	-572.5
9423	2833.3	3989.2	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1031.1	-1703.0	-0.23714		-0.22813	-970.7	-1617.1
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2					0.05560	-0.16204	-1086.0	-1545.1
9464	2851.5	4001.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1194.1	-1725.0	-0.18617		-0.16204	-1086.0	-1548.0
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1					-0.20766	0.11619	521.0	852.3
9465	2851.6	4001.2	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1028.4	-1703.0	-0.23658		-0.22813	-970.7	-1621.3
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1					0.05480	-0.15420	-1051.9	-1491.6
9466	2851.6	4001.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		831.5	1685.0	0.29932		0.29932	704.5	1558.0
			C:GEN:9 MI PT2					1671							



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			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW	dispatch								
9472	2856.3	4004.3	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	93.2	180.0	0.03039	0.02361	93.3	160.7	
			C:130754 KINTI345	345	147834	NIAG 345	345	1	272						
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				-0.03325	-0.20415	3.4	-579.7
9486	2861.7	4007.8	*L: 130750 COOPC345	345	130753	FRASR345	345	1	-980.3	-1703.0	-0.25255	-0.22813	-970.7	-1623.6	
			C:137200 EDIC	345	147833	MARCY T1	345	1	1029						
			Open 137200 EDIC	345	147833	MARCY T1	345	1				-0.08806	0.27732	108.5	902.1
9492	2864.1	4009.4	L: 130826 MEYER115	115	131343	MEYER M4	34.5	1	-190.3	-336.0	-0.05086	-0.02180	-95.9	-158.4	
			C:130751 CNDGUA_T	230	130764	MEYER230	230	1	265						
			Open 130751 CNDGUA_T	230	130764	MEYER230	230	1				0.45205	-0.06428	-208.9	-393.0
9496	2865.2	4010.1	L: Interface	73	MarcySouthS				1941.8	3048.0	0.38608	0.34073	1690.0	2666.3	
			C:BUS:N.S._99						1725						
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1				-0.09778	-0.11590	-428.0	-760.1
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				-0.10744	-0.04825	-400.1	-538.4
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.16109	-0.15521	-928.1	-1372.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				-0.01545	0.00542	260.5	276.0
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				-0.02594	-0.15077	-827.1	-1259.1
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.00583	0.00000	3.8	3.8
9504	2871.3	4014.1	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-569.0	-927.0	-0.12467	-0.12460	-474.3	-832.0	
			C:HQ-NY-765-New						1887						
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				-0.01330	0.00294	753.9	762.3
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				-0.01330	0.00255	656.5	663.8
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.00275	-22.3	-30.2
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.06171	0.00000	-157.9	-157.9
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent	dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW	dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent	dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW	dispatch							
9507	2872.4	4014.8	L: 131018 LOUNSI15	115	131850	CNYOG115	115	1	9.0	143.0	0.04665	0.03872	-2.0	109.2	
			C: 95646 DEANWIND	230	130772	SHRED230	230	1	37						
			Open 95646 DEANWIND	230	130772	SHRED230	230	1				0.14019	0.05660	78.4	241.0
9508	2872.4	4014.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1246.4	-1725.0	-0.16660	-0.16204	-1086.0	-1551.4	
			C:125002 ROSETON	345	126281	FISHKILL	345	1	71						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.12774	0.03571	1256.5	1359.0
9509	2872.4	4014.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1246.4	-1725.0	-0.16660	-0.16204	-1086.0	-1551.4	
			C:SIN:430						1792						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.12774	0.03571	1256.5	1359.0
9523	2877.4	4018.1	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1132.1	-1724.0	-0.20570	-0.15055	-828.1	-1261.3	
			C:137451 LEEDS 3	345	137452	N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2				0.35787	-0.15408	-849.6	-1292.9
9530	2881.6	4020.9	L: 137451 LEEDS 3	345	147831	GILB 345	345	1	-982.8	-1428.0	-0.15450				
			Base Case												
9533	2883.8	4022.3	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-51.8	-153.0	-0.03511	-0.02727	-51.9	-130.5	
			C:130754 KINTI345	345	147834	NIAG 345	345	1	272						
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				0.03841	-0.20415	3.4	-585.3
9534	2886.2	4023.9	L: 130807 GOUDY115	115	130848	S.OWE115	115	1	25.0	-143.0	-0.05822	-0.03872	48.6	-63.1	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.09271	-0.21033	-254.7	-861.8
9539	2887.5	4024.7	L: 136150 CLAY	345	149001	PANNELL3	345	2	-229.6	-1434.0	-0.41710	-0.26493	-145.8	-910.8	
			C:136150 CLAY	345	149001	PANNELL3	345	1	794						
			Open 136150 CLAY	345	149001	PANNELL3	345	1				0.57628	-0.26406	-145.4	-907.9
9546	2891.7	4027.5	L: 130753 FRASR345	345	147831	GILB 345	345	1	650.0	1524.0	0.30224	0.20275	226.7	812.9	
			C:130750 COOPC345	345	130753	FRASR345	345	1	259						
			Open 130750 COOPC345	345	130753	FRASR345	345	1				-0.43611	-0.22813	-970.7	-1630.4
9548	2892.2	4027.8	L: 136150 CLAY	345	149001	PANNELL3	345	1	-229.3	-1434.0	-0.41653	-0.26406	-145.4	-909.1	
			C:136150 CLAY	345	149001	PANNELL3	345	2	795						
			Open 136150 CLAY	345	149001	PANNELL3	345	2				0.57549	-0.26493	-145.8	-912.0
9549	2892.7	4028.2	L: 131018 LOUNSI15	115	131850	CNYOG115	115	1	-42.9	143.0	0.06427	0.03872	-2.0	110.0	

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			C:130763 HILSD230	230	130768 WATRC230	230	1	287											
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.17952	0.14233	-227.9	183.8					
9553	2893.6	4028.8	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.0					
			C:130765 OAKDL230	230	130772 SHRED230	230	1	290											
			Open 130765 OAKDL230	230	130772 SHRED230	230	1					-0.14019	-0.05660	-71.3	-235.1				
9554	2894.3	4029.2	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.1					
			C:SER:OAKDALE_WATRC230					1704											
			Open 130765 OAKDL230	230	130772 SHRED230	230	1					-0.14019	-0.05660	-71.3	-235.1				
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					-0.09680	0.00000	0.3	0.3				
9556	2894.5	4029.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.1					
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	291											
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1					0.14019	0.05660	71.0	234.9				
9571	2905.5	4036.5	L: Interface	10	F-To-G				3207.2	4643.0	0.49418								
			Base Case																
9574	2906.3	4037.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		766.5	1685.0	0.31603	0.29932	704.5	1574.4					
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1					-0.19370	-0.08630	-320.3	-571.2				
9577	2907.0	4037.5	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-78.0	-173.0	-0.03269	-0.02948	-66.1	-151.8					
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1					0.03718	-0.08630	-320.3	-571.2				
9589	2912.0	4040.8	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		70.3	159.0	0.03045	0.02270	66.1	132.2					
			C:136150 CLAY	345	149001 PANNELL3	345	2	795											
			Open 136150 CLAY	345	149001 PANNELL3	345	2					-0.02926	-0.26493	-145.8	-917.3				
9590	2912.0	4040.8	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		25.1	143.0	0.04048	0.03872	-2.0	110.8					
			C:130755 OAKDL345	345	131128 LAPEER	345	1	277											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					-0.04116	-0.04278	-658.8	-783.4				
9594	2913.7	4041.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		764.2	1685.0	0.31603	0.29932	704.5	1576.6					
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1					0.19370	0.08630	308.3	559.8				
9595	2914.1	4042.2	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-43.8	-558.0	-0.17647	-0.12447	-10.5	-373.3					
			C:147834 NIAG 345	345	157051 BECK B	345	1	1487											
			Open 147834 NIAG 345	345	157051 BECK B	345	1					0.21054	-0.24696	-157.8	-877.4				
9596	2914.2	4042.3	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-43.7	-558.0	-0.17647	-0.12447	-10.5	-373.3					
			C:147834 NIAG 345	345	157050 BECK A	345	1	1486											
			Open 147834 NIAG 345	345	157050 BECK A	345	1					0.21054	-0.24696	-157.6	-877.3				
9598	2916.5	4043.7	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		70.3	159.0	0.03041	0.02270	66.1	132.3					
			C:136150 CLAY	345	149001 PANNELL3	345	1	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	1					-0.02920	-0.26406	-145.4	-915.5				
9600	2917.6	4044.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-6.9	-143.0	-0.04665	-0.03872	4.1	-108.9					
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37											
			Open 95646 DEANWIND	230	130772 SHRED230	230	1					-0.14019	0.05660	78.4	243.5				
9607	2920.2	4046.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		762.1	1685.0	0.31603	0.29932	704.5	1578.5					
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1					0.19370	0.08630	297.6	549.6				
9609	2920.6	4046.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-77.5	-173.0	-0.03269	-0.02948	-66.1	-152.2					
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1					-0.03718	0.08630	308.3	560.4				
9618	2925.5	4049.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1124.9	-1724.0	-0.20478	-0.15077	-827.1	-1268.2					
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083											
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2					0.35053	-0.15408	-849.6	-1300.3				
9619	2925.6	4049.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		45.0	-143.0	-0.06427	-0.03872	4.1	-109.2					
			C:130763 HILSD230	230	130768 WATRC230	230	1	287											
			Open 130763 HILSD230	230	130768 WATRC230	230	1					-0.17952	0.14233	-227.9	188.5				
9626	2929.8	4052.5	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		759.1	1685.0	0.31603	0.29932	704.5	1581.4					
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1					-0.19370	-0.08630	-281.9	-534.8				
9631	2931.5	4053.6	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		807.5	1685.0	0.29932	0.29932	704.5	1581.9					
			C:GEN:GINNA					1672											
			Remove unit 1 from bus	149140	GINNA 19	19.0		582.0 MW	dispatch										
9633	2932.8	4054.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-77.1	-173.0	-0.03269	-0.02948	-66.1	-152.5					
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1					-0.03718	0.08630	297.6	550.7				
9636	2934.0	4055.2*	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		757.7	1685.0	0.31603	0.29932	704.5	1582.7					
			C:130767 STOLE230	230	130770 SHLDN230	230	1	294											
			Open 130767 STOLE230	230	130770 SHLDN230	230	1					0.19370	0.08630	275.1	528.3				

DysingerEast

9644	2938.9	4058.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:130765 OAKDL230	230	130772	SHRED230	230	1						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14019	-0.05660	-71.3	-237.7
9649	2939.5	4058.8	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:SER:OAKDALE_WATRC230											1704
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14019	-0.05660	-71.3	-237.7
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.09680	0.00000	0.3	0.3
9650	2939.8	4059.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:130765 OAKDL230	230	130838	OAKDL115	115	1						291
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.14019	0.05660	71.0	237.4
9661	2944.3	4061.9	L: 131018 LOUN115	115	131850	CNYOG115	115	1	-2.0	112.0	0.03872			
			Base Case											
9682	2949.9	4065.7	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	559.5	927.0	0.12460	0.12460	488.7	856.2
			C:GEN:9 MI PT2											1671
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW			dispatch					
9690	2950.6	4066.1	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-76.5	-173.0	-0.03269	-0.02948	-66.1	-153.0
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1						41
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1			0.03718	-0.08630	-281.9	-536.6
9714	2958.4	4071.2	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-76.3	-173.0	-0.03269	-0.02948	-66.1	-153.3
			C:130767 STOLE230	230	130770	SHLDN230	230	1						294
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			-0.03718	0.08630	275.1	530.4
9734	2964.2	4075.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-23.0	-143.0	-0.04048	-0.03872	4.1	-110.7
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			0.04116	-0.04278	-658.8	-785.6
9757	2969.0	4078.2	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	557.1	927.0	0.12460	0.12460	488.7	858.6
			C:SIN:250											1787
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch					
9825	2977.0	4083.4	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	556.1	927.0	0.12460	0.12460	488.7	859.6
			C:GEN:SEAB&OMS											1685
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch					
9826	2977.0	4083.4	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	556.1	927.0	0.12460	0.12460	488.7	859.6
			C:GEN:SEABROOK											1683
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch					
9852	2979.9	4085.3	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-62.9	-153.0	-0.03024	-0.02727	-51.9	-133.1
			C:130764 MEYER230	230	134750	DAIRY230	230	1						289
			Open 130764 MEYER230	230	134750	DAIRY230	230	1			0.03439	-0.08630	-320.3	-577.5
9900	2982.4	4086.9	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1117.6	-1724.0	-0.20333	-0.15055	-828.1	-1277.1
			C:137451 LEEDS 3	345	137453	N.SCOT99	345	2						1084
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2			0.35002	-0.15077	-827.1	-1276.8
11187	2993.5	4094.2	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-62.5	-153.0	-0.03024	-0.02727	-51.9	-133.5
			C:131122 WTHRS230	230	134750	DAIRY230	230	1						461
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1			-0.03439	0.08630	308.3	566.7
11214	2994.4	4094.8	L: 137200 EDIC	345	147833	MARCY T1	345	1	668.5	1793.0	0.37552	0.27732	108.5	938.9
			C:137200 EDIC	345	137452	N.SCOT77	345	1						1027
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			0.66771	0.14707	838.7	1279.1
11296	2997.8	4097.0*L:	131018 LOUN115	115	131850	CNYOG115	115	1	3.1	143.0	0.04665	0.03872	-2.0	114.1
			C: 95646 DEANWIND	230	130768	WATRC230	230	1						36
			Open 95646 DEANWIND	230	130768	WATRC230	230	1			-0.14019	-0.05660	-36.7	-206.3
11305	2998.6	4097.5	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1115.0	-1724.0	-0.20311	-0.15077	-827.1	-1279.2
			C:137451 LEEDS 3	345	137452	N.SCOT77	345	1						1082
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			0.34761	-0.15055	-828.1	-1279.5
11309	2998.8	4097.7	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	4.1	-112.0	-0.03872			
			Base Case											

WestCentral

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, JUL 11 2011 16:10  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 11331  
 First violation - 691.4 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 11331 violations

Interface-1 Interface 2 WEST CENTRAL Init.Flow= 878.43 TDF= 0.7227

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	691.4	1378.1	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1518.6	-1724.0	-0.29708	-0.15077	-827.1 -931.4
			C:BUS:N.S._77 1724					
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16316	-664.8 -777.6
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00469	245.1 248.4
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA				
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.14707	838.7 940.4
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00091	169.3 168.6
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15055	-828.1 -932.2
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0 -250.0
2	760.1	1427.8	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.3	383.0	0.07856	0.06428	263.7 312.6
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.12460	-519.7 -614.4
3	767.6	1433.2	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.07877	0.06428	263.7 313.1
			C:SER:HCWC/NWES 1717					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.03514	74.0 47.0
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.12460	-519.7 -615.3
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	0.00000	-45.4 -45.4
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	776.5	1439.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.2	383.0	0.07834	0.06428	263.7 313.6
			C:SER:HC-WC_30&W-F_171 1711					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	-0.00293	-7.0 -9.3
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.12460	-519.7 -616.4
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	0.00000	-45.4 -45.4
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
5	791.4	1450.4	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.8	-383.0	-0.07856	-0.06428	-261.3 -312.1
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11461	-0.12460	-519.7 -618.3
6	798.8	1455.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.1	-383.0	-0.07877	-0.06428	-261.3 -312.6
			C:SER:HCWC/NWES 1717					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00558	-0.03514	74.0 45.9
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11477	-0.12460	-519.7 -619.2
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			-0.00933	0.00000	-45.4 -45.4
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
7	805.4	1460.5	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	319.7	383.0	0.07856	0.06428	263.7 315.5
			C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35					
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1			0.11461	0.12460	488.7 589.0
8	807.8	1462.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-319.7	-383.0	-0.07834	-0.06428	-261.3 -313.2

WestCentral

			C:SERC:HC-WC_30&W-F_171				1711									
			Open	135277	FALCONER	115	200579	WARREN	115	1	-0.04698	-0.00293	-7.0	-9.4		
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1	0.11394	-0.12460	-519.7	-620.3		
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1	-0.00956	0.00000	-45.4	-45.4		
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
9	826.4	1475.6	L:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	318.1	383.0	0.07856	0.06428	263.7	316.8
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1458					
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1			-0.11461	-0.12460	-474.3	-577.2
10	827.4	1476.3	L:	130774	BATH 115	115	131347	HOWARD	115	1	-133.2	-159.0	-0.03117	-0.02237	-97.1	-115.6
			C:	130751	CNDGUA_T	230	130761	AVOCA230	230	1	264					
			Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			-0.13684	0.06428	264.2	317.4
11	828.0	1476.8	L:	130774	BATH 115	115	131347	HOWARD	115	1	-133.2	-159.0	-0.03117	-0.02237	-97.1	-115.6
			C:	SERC:MEYER_HILLS	D_68						1714					
			Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			-0.13684	0.06428	263.7	317.0
			Open	130751	CNDGUA_T	230	130761	AVOCA230	230	1			-0.09582	0.00000	0.5	0.5
12	829.6	1478.0	L:	130774	BATH 115	115	131347	HOWARD	115	1	-133.1	-159.0	-0.03117	-0.02237	-97.1	-115.6
			C:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	284					
			Open	130761	AVOCA230	230	131154	STONY RIDGE	230	1			-0.13684	0.06428	263.7	317.1
13	836.7	1483.1	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-317.3	-383.0	-0.07856	-0.06428	-261.3	-315.0
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	35					
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1			-0.11461	0.12460	488.7	592.9
14	840.4	1485.8	L:	130774	BATH 115	115	131347	HOWARD	115	1	-132.8	-159.0	-0.03117	-0.02237	-97.1	-115.9
			C:	130763	HILSD230	230	131154	STONY RIDGE	230	1	288					
			Open	130763	HILSD230	230	131154	STONY RIDGE	230	1			0.13684	-0.06428	-261.3	-315.3
15	857.6	1498.2	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-315.6	-383.0	-0.07856	-0.06428	-261.3	-316.4
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1458					
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1			0.11461	-0.12460	-474.3	-581.1
16	913.8	1538.8	L:	135872	SOUR-111	115	135873	SWDN-111	115	1	123.1	159.0	0.03924	0.02603	92.1	115.8
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1			0.04414	0.29932	704.5	978.0
17	955.4	1568.9	L:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	329.3	383.0	0.05616	0.06428	263.7	325.1
			C:	BUS:WATERCURE_345							1742					
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1			-0.04479	-0.12460	-519.7	-638.7
			Open	130757	WATRC345	345	130768	WATRC230	230	1			0.15980	-0.08574	265.0	183.1
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.03638	0.00000	-0.0	-0.0
18	959.7	1572.0	L:	130815	HINMN115	115	131611	HARIS115	115	1	-274.0	-306.0	-0.03339	-0.02593	-228.0	-252.9
			C:	130766	ROBIN230	230	130767	STOLE230	230	1	292					
			Open	130766	ROBIN230	230	130767	STOLE230	230	1			-0.26123	0.02857	175.7	203.2
19	965.3	1576.1	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	246.8	280.0	0.03437	0.02669	199.6	225.3
			C:	130766	ROBIN230	230	130767	STOLE230	230	1	292					
			Open	130766	ROBIN230	230	130767	STOLE230	230	1			0.26893	0.02857	175.7	203.3
20	999.1	1600.5	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-326.9	-383.0	-0.05616	-0.06428	-261.3	-325.5
			C:	BUS:WATERCURE_345							1742					
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1			0.04479	-0.12460	-519.7	-644.2
			Open	130757	WATRC345	345	130768	WATRC230	230	1			-0.15980	-0.08574	265.0	179.3
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.03638	0.00000	-0.0	-0.0
21	1035.7	1626.9	L:	130750	COOPC345	345	130753	FRASR345	345	1	-970.7	-1207.0	-0.22813			
				Base Case												
22	1063.5	1647.0	L:	130815	HINMN115	115	131611	HARIS115	115	1	-262.7	-306.0	-0.04067	-0.02593	-228.0	-255.6
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1			-0.04926	0.29932	704.5	1022.8
23	1068.1	1650.3	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	235.3	280.0	0.04187	0.02669	199.6	228.1
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1			0.05071	0.29932	704.5	1024.2
24	1070.5	1652.0	L:	130774	BATH 115	115	131347	HOWARD	115	1	-125.6	-159.0	-0.03117	-0.02237	-97.1	-121.0
			C:	130751	CNDGUA_T	230	130764	MEYER230	230	1	265					
			Open	130751	CNDGUA_T	230	130764	MEYER230	230	1			0.13684	-0.06428	-208.9	-277.7
25	1088.3	1664.9	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	108.5	153.0	0.04093	0.02715	76.0	105.6
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1			0.04604	0.29932	704.5	1030.2
26	1097.2	1671.3	L:	135872	SOUR-111	115	135873	SWDN-111	115	1	122.2	159.0	0.03351	0.02603	92.1	120.6
			C:	130754	KINTI345	345	149000	ROCH 345	345	1	273					
			Open	130754	KINTI345	345	149000	ROCH 345	345	1			0.03666	0.20415	823.2	1047.2

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27	1134.2	1698.1	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1					264	
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13684	0.06428	264.2	337.1
28	1134.9	1698.6	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:SER:MEYER_HILLSD_68									1714	
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13684	0.06428	263.7	336.7
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.09582	0.00000	0.5	0.5
29	1136.5	1699.7	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03117	0.02237	87.5	112.9
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1					284	
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13684	0.06428	263.7	336.8
30	1147.2	1707.5	L: 131342 BENET115	115	131347 HOWARD	115	1	123.2	159.0	0.03117	0.02237	87.5	113.2
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1					288	
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.13684	-0.06428	-261.3	-335.0
31	1176.4	1728.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.3	383.0	0.06691	0.06428	263.7	339.3
			C:130755 OAKDL345	345	131128 LAPEER	345	1					277	
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.06156	-0.04278	-658.8	-709.2
32	1208.0	1751.4	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.1	383.0	0.06534	0.06428	263.7	341.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.05429	-0.01951	-743.2	-766.8
33	1213.1	1755.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-301.8	-383.0	-0.06691	-0.06428	-261.3	-339.2
			C:130755 OAKDL345	345	131128 LAPEER	345	1					277	
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.06156	-0.04278	-658.8	-710.7
34	1245.5	1778.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-301.6	-383.0	-0.06534	-0.06428	-261.3	-341.3
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.05429	-0.01951	-743.2	-767.5
35	1254.2	1784.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.04371	0.02899	83.5	119.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1325	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04916	0.29932	704.5	1079.9
36	1270.7	1796.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.3	-430.0	-0.08630			
			Base Case										
37	1291.5	1811.8	L: 130815 HINMN115	115	131611 HARIS115	115	1	-261.7	-306.0	-0.03428	-0.02593	-228.0	-261.5
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04092	0.20415	823.2	1086.9
38	1293.5	1813.2	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	291.6	383.0	0.07069	0.06428	263.7	346.9
			C:130774 BATH 115	115	131347 HOWARD	115	1					299	
			Open 130774 BATH 115	115	131347 HOWARD	115	1			-0.28676	-0.02237	-97.1	-126.0
39	1297.0	1815.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	234.2	280.0	0.03529	0.02669	199.6	234.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04212	0.20415	823.2	1088.0
40	1301.5	1819.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	107.5	153.0	0.03496	0.02715	76.0	111.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03824	0.20415	823.2	1088.9
41	1328.1	1838.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.0	1685.0	0.40808	0.29932	704.5	1102.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53277	0.20415	823.2	1094.3
42	1328.3	1838.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-289.1	-383.0	-0.07069	-0.06428	-261.3	-346.6
			C:130774 BATH 115	115	131347 HOWARD	115	1					299	
			Open 130774 BATH 115	115	131347 HOWARD	115	1			0.28676	-0.02237	-97.1	-126.8
43	1332.3	1841.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	288.8	383.0	0.07069	0.06428	263.7	349.4
			C:131342 BENET115	115	131347 HOWARD	115	1					472	
			Open 131342 BENET115	115	131347 HOWARD	115	1			0.28676	0.02237	87.5	117.3
45	1367.1	1866.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-286.4	-383.0	-0.07069	-0.06428	-261.3	-349.1
			C:131342 BENET115	115	131347 HOWARD	115	1					472	
			Open 131342 BENET115	115	131347 HOWARD	115	1			-0.28676	0.02237	87.5	118.1
47	1377.3	1873.8	L: 131342 BENET115	115	131347 HOWARD	115	1	116.1	159.0	0.03117	0.02237	87.5	118.3
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1					265	
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			-0.13684	-0.06428	-208.9	-297.4
49	1399.0	1889.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1428.2	-1725.0	-0.21218	-0.16204	-1086.0	-1312.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1					183	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.30372	-0.16509	-1126.7	-1357.7
50	1409.8	1897.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	308.3	430.0	0.08630			
			Base Case										
59	1495.9	1959.5	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	117.2	173.0	0.03733	0.02899	83.5	126.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04083	0.20415	823.2	1128.6

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60	1512.3	1971.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1086.0	-1331.0	-0.16204				
			Base Case												
65	1534.1	1987.1	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	297.6	430.0	0.08630				
			Base Case												
70	1556.6	2003.3	L: 135861 MORTIMER	115	136213	LAWLER-2	115	1	108.1	159.0	0.03270	0.02270	66.1	101.4	
			C:135860 LAWLER-1	115	135861	MORTIMER	115	1	765						
			Open 135860 LAWLER-1	115	135861	MORTIMER	115	1	-0.45215	-0.02211	-93.0	-127.4			
79	1567.6	2011.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1399.0	-1725.0	-0.20794	-0.16204	-1086.0	-1340.0	
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	185						
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1	0.29765	-0.15420	-1051.9	-1293.6			
80	1572.6	2014.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1270.5	-1703.0	-0.27505	-0.22813	-970.7	-1329.5	
			C:130750 COOPC345	345	147833	MARCY T1	345	1	263						
			Open 130750 COOPC345	345	147833	MARCY T1	345	1	0.41671	-0.11260	-719.3	-896.3			
81	1573.9	2015.8	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	108.7	159.0	0.03197	0.02603	92.1	133.0	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	749						
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1	0.21881	0.02715	76.0	118.8			
82	1576.9	2018.0	L: 130815 HINMN115	115	131611	HARIS115	115	1	-254.1	-306.0	-0.03294	-0.02593	-228.0	-268.9	
			C:130764 MEYER230	230	134750	DAIRY230	230	1	289						
			Open 130764 MEYER230	230	134750	DAIRY230	230	1	0.08122	-0.08630	-320.3	-456.4			
83	1582.6	2022.1	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	226.3	280.0	0.03391	0.02669	199.6	241.8	
			C:130764 MEYER230	230	134750	DAIRY230	230	1	289						
			Open 130764 MEYER230	230	134750	DAIRY230	230	1	-0.08361	-0.08630	-320.3	-456.9			
101	1606.5	2039.4	L: 130815 HINMN115	115	131611	HARIS115	115	1	-253.1	-306.0	-0.03294	-0.02593	-228.0	-269.7	
			C:131122 WTHRS230	230	134750	DAIRY230	230	1	461						
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1	-0.08122	0.08630	308.3	447.0			
102	1612.2	2043.5	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	225.3	280.0	0.03391	0.02669	199.6	242.6	
			C:131122 WTHRS230	230	134750	DAIRY230	230	1	461						
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1	0.08361	0.08630	308.3	447.5			
103	1613.7	2044.6	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-101.3	-173.0	-0.04444	-0.02948	-66.1	-113.6	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	-0.04999	0.29932	704.5	1187.5			
110	1633.0	2058.5	L: 130815 HINMN115	115	131611	HARIS115	115	1	-252.2	-306.0	-0.03294	-0.02593	-228.0	-270.4	
			C: 95976 STONYCRK	230	131122	WTHRS230	230	1	42						
			Open 95976 STONYCRK	230	131122	WTHRS230	230	1	-0.08122	0.08630	297.6	438.5			
111	1633.4	2058.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-366.8	-540.0	-0.10604	-0.08630	-320.3	-461.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	-0.06595	0.29932	704.5	1193.3			
114	1638.7	2062.7	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	224.4	280.0	0.03391	0.02669	199.6	243.3	
			C: 95976 STONYCRK	230	131122	WTHRS230	230	1	42						
			Open 95976 STONYCRK	230	131122	WTHRS230	230	1	0.08361	0.08630	297.6	439.0			
116	1643.9	2066.4	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	121.5	180.0	0.03559	0.02361	93.3	132.1	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	0.04003	0.29932	704.5	1196.5			
118	1652.1	2072.4	L: 130754 KINTI345	345	149000	ROCH 345	345	1	1131.4	1685.0	0.33509	0.20415	823.2	1160.5	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	0.43748	0.29932	704.5	1199.0			
126	1667.4	2083.4	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-84.5	-153.0	-0.04111	-0.02727	-51.9	-97.3	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	-0.04624	0.29932	704.5	1203.5			
128	1671.6	2086.5	L: 130815 HINMN115	115	131611	HARIS115	115	1	-250.9	-306.0	-0.03294	-0.02593	-228.0	-271.4	
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41						
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1	0.08122	-0.08630	-281.9	-426.2			
129	1677.3	2090.6	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	223.1	280.0	0.03391	0.02669	199.6	244.3	
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41						
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1	-0.08361	-0.08630	-281.9	-426.7			
130	1684.3	2095.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-373.3	-540.0	-0.09899	-0.08630	-320.3	-465.7	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1	0.10185	-0.12460	-519.7	-729.5			
132	1686.2	2097.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-371.4	-540.0	-0.10000	-0.08630	-320.3	-465.9	
			C:SER:HCWC/NWES					1717							
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1	0.02616	-0.03514	74.0	14.7			
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1	0.10260	-0.12460	-519.7	-729.8			
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1	-0.00755	0.00000	-45.4	-45.4			

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			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
135	1688.5	2098.6	L: 130815 HINMN115	115	131611 HARIS115	115	1	-250.4	-306.0	-0.03294	-0.02593	-228.0	-271.8
			C:130767 STOLE230	230	130770 SHLDN230	230	1	294					
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			-0.08122	0.08630	275.1	420.8
142	1694.2	2102.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	222.6	280.0	0.03391	0.02669	199.6	244.8
			C:130767 STOLE230	230	130770 SHLDN230	230	1	294					
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.08361	0.08630	275.1	421.3
144	1695.1	2103.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-372.5	-540.0	-0.09884	-0.08630	-320.3	-466.6
			C:SER:HC-WC_30&W-F_171					1711					
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03199	-0.00293	-7.0	-12.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10139	-0.12460	-519.7	-730.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00771	0.00000	-45.4	-45.4
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
159	1715.6	2118.3	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-281.9	-430.0	-0.08630			
			Base Case										
160	1716.2	2118.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-370.1	-540.0	-0.09899	-0.08630	-320.3	-468.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10185	0.12460	488.7	702.5
165	1720.9	2122.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.5	-1725.0	-0.20192	-0.15420	-1051.9	-1317.2
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.28903	-0.16509	-1126.7	-1410.8
179	1731.0	2129.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-368.6	-540.0	-0.09899	-0.08630	-320.3	-469.7
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1458					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10185	-0.12460	-474.3	-690.0
191	1746.6	2140.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	354.8	540.0	0.10604	0.08630	308.3	459.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.06595	0.29932	704.5	1227.2
216	1772.1	2159.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	95.2	153.0	0.03259	0.02715	76.0	124.1
			C:135872 SOUR-111	115	135873 SWDN-111	115	1	783					
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1			0.20891	0.02603	92.1	138.2
227	1778.9	2164.0	L: 135860 LAWLER-1	115	135861 MORTIMER	115	1	-125.7	-185.0	-0.03335	-0.02211	-93.0	-132.3
			C:135861 MORTIMER	115	136213 LAWLER-2	115	1	770					
			Open 135861 MORTIMER	115	136213 LAWLER-2	115	1			-0.49491	0.02270	66.1	106.4
235	1784.8	2168.3	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1295.0	1793.0	0.27903	0.17622	842.1	1156.6
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	69					
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2			-0.62491	-0.16451	-724.8	-1018.4
238	1790.7	2172.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-365.4	-540.0	-0.09748	-0.08630	-320.3	-474.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1	273					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.05478	0.20415	823.2	1188.8
245	1794.9	2175.5	L: 130767 STOLE230	230	130770 SHLDN230	230	1	275.1	430.0	0.08630			
			Base Case										
247	1798.3	2178.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.9	-1725.0	-0.20077	-0.15420	-1051.9	-1329.2
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			0.28739	-0.16204	-1086.0	-1377.4
256	1805.6	2183.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	361.3	540.0	0.09899	0.08630	308.3	464.2
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10185	-0.12460	-519.7	-744.6
257	1806.2	2183.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	359.4	540.0	0.10000	0.08630	308.3	464.2
			C:SER:HCWC/NWES					1717					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02616	-0.03514	74.0	10.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10260	-0.12460	-519.7	-744.7
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00755	0.00000	-45.4	-45.4
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
265	1810.2	2186.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.9	-1331.0	-0.15420			
			Base Case										
279	1814.9	2190.0	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	114.3	180.0	0.03622	0.02402	85.6	129.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04074	0.29932	704.5	1247.7
286	1816.6	2191.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	360.5	540.0	0.09884	0.08630	308.3	465.1
			C:SER:HC-WC_30&W-F_171					1711					
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03199	-0.00293	-7.0	-12.4



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			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10139	-0.12460	-519.7	-746.0		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00771	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
340	1835.6	2205.0	L: 137532 RTRDM1	115	137730	ROTRDM.2	230	2		-346.7	-402.0	-0.03015	-0.00789	-236.5	-251.0
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		0.13877	-0.11590	-428.0	-640.7		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.01297	-0.04825	-400.1	-488.7		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.03885	-0.15521	-928.1	-1213.0		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		-0.05287	0.00542	260.5	270.5		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		-0.00510	-0.15077	-827.1	-1103.9		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.01886	0.00000	3.8	3.8		
346	1837.5	2206.4	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		358.1	540.0	0.09899	0.08630	308.3	466.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10185	0.12460	488.7	717.6		
433	1847.7	2213.7	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		344.1	540.0	0.10604	0.08630	297.6	457.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.06595	0.29932	704.5	1257.5		
536	1852.3	2217.0	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		356.6	540.0	0.09899	0.08630	308.3	468.2
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.10185	-0.12460	-474.3	-705.1		
1169	1855.6	2219.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		263.7	383.0	0.06428			
			Base Case												
2143	1888.7	2243.4	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-519.7	-755.0	-0.12460			
			Base Case												
2690	1893.8	2247.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-261.3	-383.0	-0.06428			
			Base Case												
3570	1904.2	2254.5	L: 137451 LEEDS 3	345	147831	GILB 345	345	1		-1471.2	-1912.0	-0.23149	-0.15450	-982.8	-1277.0
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		0.11712	-0.11590	-428.0	-648.7		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.64409	-0.04825	-400.1	-492.0		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.17080	-0.15521	-928.1	-1223.6		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.04088	0.00542	260.5	270.8		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.04010	-0.15077	-827.1	-1114.2		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.12264	0.00000	3.8	3.8		
3615	1913.5	2261.3	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		348.7	540.0	0.10000	0.08630	297.6	462.7
			C:SER:HCWC/NWES					1717							
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.02616	-0.03514	74.0	6.7		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10260	-0.12460	-519.7	-758.1		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00755	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3617	1913.9	2261.6	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		353.4	540.0	0.09748	0.08630	308.3	473.5
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.05478	0.20415	823.2	1213.9		
3618	1914.0	2261.6	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		350.5	540.0	0.09899	0.08630	297.6	462.8
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10185	-0.12460	-519.7	-758.1		
3629	1916.8	2263.7	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1		-100.2	-173.0	-0.03796	-0.02948	-66.1	-122.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		-0.04152	0.20415	823.2	1214.5		
3642	1925.1	2269.7	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		349.7	540.0	0.09884	0.08630	297.6	463.7
			C:SER:HC-WC_30&W-F_171					1711							
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.03199	-0.00293	-7.0	-12.7		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10139	-0.12460	-519.7	-759.5		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00771	0.00000	-45.4	-45.4		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3668	1945.9	2284.7	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		347.4	540.0	0.09899	0.08630	297.6	465.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10185	0.12460	488.7	731.1		
3682	1952.1	2289.2	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1		120.7	180.0	0.03039	0.02361	93.3	139.4



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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10260	-0.12460	-519.7	-777.6	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00755	0.00000	-45.4	-45.4	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
3748	2072.2	2376.0	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-334.9	-540.0	-0.09899	-0.08630	-281.9	-460.8
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10185	-0.12460	-519.7	-777.9	
3753	2083.6	2384.2	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-334.1	-540.0	-0.09884	-0.08630	-281.9	-461.8
			C:SER:HC-WC_30&W-F_171									1711		
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.03199	-0.00293	-7.0	-13.1	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10139	-0.12460	-519.7	-779.3	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00771	0.00000	-45.4	-45.4	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
3756	2084.9	2385.2	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	21.6	143.0	0.05822	0.03872	-2.0	78.7
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.09271	-0.21033	-254.7	-693.2	
3757	2085.4	2385.5	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	85.7	153.0	0.03226	0.02715	76.0	132.6
			C:135861 MORTIMER	115	135873	SWDN-111	115	1	768					
			Open 135861 MORTIMER	115	135873	SWDN-111	115	1		-0.18722	-0.02727	-51.9	-108.7	
3765	2096.7	2393.7	L: 125001 ROCK TAV	345	130750	COOPC345	345	2	-1223.6	-1793.0	-0.27155	-0.16451	-724.8	-1069.7
			C:SER:CMT34&MTR34									1703		
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.56506	0.17622	842.1	1211.5	
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.05249	-0.14215	-438.7	-736.8	
3769	2104.2	2399.1	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-331.7	-540.0	-0.09899	-0.08630	-281.9	-463.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.10185	0.12460	488.7	750.8	
3770	2107.5	2401.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	365.7	540.0	0.08272	0.08630	308.3	490.2
			C:BUS:WATERCURE_345									1742		
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.05113	-0.12460	-519.7	-782.3	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.11608	-0.08574	265.0	84.3	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.04425	0.00000	-0.0	-0.0	
3778	2118.9	2409.7	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-330.3	-540.0	-0.09899	-0.08630	-281.9	-464.8
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.10185	-0.12460	-474.3	-738.3	
3780	2121.2	2411.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-19.5	-143.0	-0.05822	-0.03872	4.1	-78.0
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.09271	-0.21033	-254.7	-700.9	
3782	2124.2	2413.6	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1	-78.6	-173.0	-0.04444	-0.02948	-43.4	-106.0
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.04999	0.29932	704.5	1340.3	
3787	2137.7	2423.3	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	488.7	755.0	0.12460			
			Base Case											
3788	2138.5	2423.9	L: 130767 STOLE230	230	130770	SHLDN230	230	1	326.1	540.0	0.10000	0.08630	275.1	459.7
			C:SER:HCWC/NWES									1717		
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.02616	-0.03514	74.0	-1.2	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10260	-0.12460	-519.7	-786.1	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00755	0.00000	-45.4	-45.4	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
3790	2141.3	2425.9	L: 130767 STOLE230	230	130770	SHLDN230	230	1	328.0	540.0	0.09899	0.08630	275.1	459.9
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10185	-0.12460	-519.7	-786.5	
3791	2148.9	2431.4	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1053.6	-1703.0	-0.30222	-0.22813	-970.7	-1460.9
			C:130753 FRASR345	345	147831	GILB 345	345	1	271					
			Open 130753 FRASR345	345	147831	GILB 345	345	1		-0.36545	0.20275	226.7	662.3	
3793	2149.9	2432.1	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	226.2	336.0	0.05105	0.02202	106.9	154.2
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	264					
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.45165	0.06428	264.2	402.4	
3794	2150.3	2432.4	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	226.2	336.0	0.05105	0.02202	106.9	154.3
			C:SER:MEYER_HILLSD_68									1714		
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1		0.45165	0.06428	263.7	401.9	
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.41293	0.00000	0.5	0.5	

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3797	2152.4	2433.9	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	113.4	180.0	0.03093	0.02402	85.6	137.3
			C:130754 KINTI345	345	149000 ROCH	345	1						
			Open 130754 KINTI345	345	149000 ROCH	345	1			0.03384	0.20415	823.2	1262.6
3798	2152.8	2434.2	L: 130767 STOLE230	230	130770 SHLDN230	230	1	327.2	540.0	0.09884	0.08630	275.1	460.9
			C:SER:HC-WC_30&W-F_171										
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03199	-0.00293	-7.0	-13.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10139	-0.12460	-519.7	-787.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00771	0.00000	-45.4	-45.4
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3799	2154.4	2435.4	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	226.0	336.0	0.05105	0.02202	106.9	154.3
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45165	0.06428	263.7	402.2
3801	2156.2	2436.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-352.1	-540.0	-0.08713	-0.08630	-320.3	-506.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.04276	-0.01951	-743.2	-785.3
3804	2163.8	2442.2	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-339.5	-540.0	-0.09265	-0.08630	-320.3	-507.1
			C:135272-135289										
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			-0.30709	0.02066	62.3	107.0
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			0.00496	-0.00117	4.5	1.9
			Open 135272 DUGN-157	115	135289 NILE115	115	1			-0.04921	0.00000	1.2	1.2
3809	2173.2	2449.0	L: 130767 STOLE230	230	130770 SHLDN230	230	1	324.9	540.0	0.09899	0.08630	275.1	462.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10185	0.12460	488.7	759.4
3811	2176.2	2451.1	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	224.9	336.0	0.05105	0.02202	106.9	154.8
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1						
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.45165	-0.06428	-261.3	-401.1
3812	2179.1	2453.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1235.9	1724.0	0.22401	0.14707	838.7	1159.2
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.23695	-0.11590	-428.0	-680.6
			Open 137453 N.SCOT99	345	147831 GILB	345	1			-0.14231	-0.04825	-400.1	-505.3
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.34308	-0.15521	-928.1	-1266.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.08889	0.00542	260.5	272.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.06737	-0.15077	-827.1	-1155.7
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.19736	0.00000	3.8	3.8
3814	2184.7	2457.2	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-327.0	-540.0	-0.09748	-0.08630	-281.9	-470.5
			C:130754 KINTI345	345	149000 ROCH	345	1						
			Open 130754 KINTI345	345	149000 ROCH	345	1			-0.05478	0.20415	823.2	1269.2
3816	2188.0	2459.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	323.4	540.0	0.09899	0.08630	275.1	463.9
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10185	-0.12460	-474.3	-746.9
3821	2192.6	2463.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	87.0	153.0	0.03011	0.02715	76.0	135.5
			C:130764 MEYER230	230	134750 DAIRY230	230	1						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1			-0.03425	-0.08630	-320.3	-509.6
3827	2205.8	2472.5	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	75.9	153.0	0.03496	0.02715	76.0	135.9
			C:130754 KINTI345	345	147834 NIAG	345	1						
			Open 130754 KINTI345	345	147834 NIAG	345	1			-0.03824	-0.20415	3.4	-446.9
3828	2206.2	2472.8	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	86.6	153.0	0.03011	0.02715	76.0	135.9
			C:131122 WTHRS230	230	134750 DAIRY230	230	1						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			0.03425	0.08630	308.3	498.7
3832	2212.2	2477.2	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.1	-1345.0	-0.17084	-0.11260	-719.3	-968.4
			C:130750 COOPC345	345	130753 FRASR345	345	1						
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.25527	-0.22813	-970.7	-1475.4
3833	2218.4	2481.6	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	86.2	153.0	0.03011	0.02715	76.0	136.3
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			0.03425	0.08630	297.6	489.1
3838	2236.2	2494.5	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	85.7	153.0	0.03011	0.02715	76.0	136.7
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			-0.03425	-0.08630	-281.9	-474.9
3839	2237.2	2495.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	354.9	540.0	0.08272	0.08630	297.6	490.7
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05113	-0.12460	-519.7	-798.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11608	-0.08574	265.0	73.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04425	0.00000	-0.0	-0.0

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3843	2244.0	2500.1*L:	135850 SOUR-114	115	135861 MORTIMER	115	1	85.4	153.0	0.03011	0.02715	76.0	136.9
			C:130767 STOLE230	230	130770 SHLDN230	230	1						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.03425	0.08630	275.1	468.8
3852	2253.1	2506.7 L:	95593 CHERYFLT	345	200769 HOMER CY	345	1	-474.3	-755.0	-0.12460			
			Base Case										
3854	2254.8	2507.9 L:	130767 STOLE230	230	130770 SHLDN230	230	1	320.2	540.0	0.09748	0.08630	275.1	469.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05478	0.20415	823.2	1283.5
3861	2274.1	2521.9 L:	137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.5	560.0	0.05210	0.01325	256.8	287.0
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.11590	-428.0	-691.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	-0.04825	-400.1	-509.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.15521	-928.1	-1281.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00542	260.5	272.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.15077	-827.1	-1170.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8
3862	2274.1	2521.9 L:	137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.5	560.0	0.05210	0.01325	256.8	287.0
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.11590	-428.0	-691.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	-0.04825	-400.1	-509.9
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.15521	-928.1	-1281.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00542	260.5	272.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.15077	-827.1	-1170.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8
3864	2278.1	2524.8 L:	130815 HINMN115	115	131611 HARIS115	115	1	-227.9	-306.0	-0.03428	-0.02593	-228.0	-287.1
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			0.04092	-0.20415	3.4	-461.7
3867	2283.6	2528.7 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	199.4	280.0	0.03529	0.02669	199.6	260.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04212	-0.20415	3.4	-462.8
3871	2293.4	2535.8 L:	131122 WTHRS230	230	134750 DAIRY230	230	1	327.5	540.0	0.09265	0.08630	308.3	506.3
			C:135272-135289										
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30709	0.02066	62.3	109.7
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00496	-0.00117	4.5	1.8
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04921	0.00000	1.2	1.2
3872	2293.6	2536.0*L:	131122 WTHRS230	230	134750 DAIRY230	230	1	327.5	540.0	0.09265	0.08630	308.3	506.3
			C:135289 NILE115	115	147949 WELLSVLE	115	1						
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30736	0.02066	62.3	109.7
3876	2298.6	2539.6 L:	149000 ROCH 345	345	149001 PANNELL3	345	2	643.3	1685.0	0.45317	0.25265	358.6	939.3
			C:149000 ROCH 345	345	149001 PANNELL3	345	1						
			Open 149000 ROCH 345	345	149001 PANNELL3	345	1			0.79631	0.25182	357.5	936.4
3877	2301.1	2541.4 L:	149000 ROCH 345	345	149001 PANNELL3	345	1	642.9	1685.0	0.45287	0.25182	357.5	937.0
			C:149000 ROCH 345	345	149001 PANNELL3	345	2						
			Open 149000 ROCH 345	345	149001 PANNELL3	345	2			0.79577	0.25265	358.6	940.0
3879	2304.5	2543.9*L:	130815 HINMN115	115	135452 LOCKPORT	115	1	210.4	280.0	0.03022	0.02669	199.6	261.1
			C:147842 NIAGAR2W	230	147850 NIAG115E	115	1						
			Open 147842 NIAGAR2W	230	147850 NIAG115E	115	1			0.11722	0.03009	92.2	161.5
3885	2329.3	2561.7 L:	130750 COOPC345	345	130753 FRASR345	345	1	-1117.8	-1703.0	-0.25125	-0.22813	-970.7	-1502.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.14962	-0.15450	-982.8	-1342.7
3886	2329.4	2561.8 L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.7	-1725.0	-0.19201	-0.16204	-1086.0	-1463.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.23309	-0.12858	-822.7	-1122.2
3891	2340.5	2569.8 L:	130754 KINTI345	345	149000 ROCH 345	345	1	823.2	1301.0	0.20415			
			Base Case										
3893	2355.5	2580.7 L:	135861 MORTIMER	115	135874 SWDN-113	115	1	-74.8	-153.0	-0.03318	-0.02577	-45.0	-105.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.03630	0.20415	823.2	1304.1
3896	2371.9	2592.6 L:	130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.4	-336.0	-0.05086	-0.02180	-95.9	-147.6
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1						
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			-0.45205	0.06428	264.2	416.7
3897	2372.3	2592.8 L:	130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.3	-336.0	-0.05086	-0.02180	-95.9	-147.6
			C:SER:MEYER_HILLSD_68										
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.45205	0.06428	263.7	416.2
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			-0.41371	0.00000	0.5	0.5

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3900	2376.5	2595.9	L: 130826 MEYER115	115	131343 MEYER M4	34.5	1	-215.1	-336.0	-0.05086	-0.02180	-95.9	-147.7
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			-0.45205	0.06428	263.7	416.5
3923	2398.3	2611.6	L: 130826 MEYER115	115	131343 MEYER M4	34.5	1	-214.0	-336.0	-0.05086	-0.02180	-95.9	-148.2
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1						
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			0.45205	-0.06428	-261.3	-415.4
3924	2400.1	2613.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	83.4	173.0	0.03733	0.02899	83.5	153.1
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04083	-0.20415	3.4	-486.6
3928	2407.2	2618.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	702.6	1685.0	0.40808	0.29932	704.5	1425.0
			C:130754 KINTI345	345	147834 NIAG 345	345	1						
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.53277	-0.20415	3.4	-488.0
3933	2409.2	2619.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	316.8	540.0	0.09265	0.08630	297.6	505.5
			C:135272-135289										
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30709	0.02066	62.3	112.1
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00496	-0.00117	4.5	1.6
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04921	0.00000	1.2	1.2
3935	2409.4	2619.7	*L: 95976 STONYCRK	230	131122 WTHRS230	230	1	316.8	540.0	0.09265	0.08630	297.6	505.5
			C:135289 NILE115	115	147949 WELLSVLE	115	1						
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30736	0.02066	62.3	112.1
3944	2418.2	2626.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	95.3	173.0	0.03215	0.02899	83.5	153.7
			C:130764 MEYER230	230	134750 DAIRY230	230	1						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1			-0.03657	-0.08630	-320.3	-529.0
3951	2426.6	2632.1	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-339.3	-540.0	-0.08272	-0.08630	-281.9	-491.4
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.05113	-0.12460	-519.7	-822.0
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11608	-0.08574	265.0	56.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04425	0.00000	-0.0	-0.0
3954	2431.9	2635.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	94.8	173.0	0.03215	0.02899	83.5	154.1
			C:131122 WTHRS230	230	134750 DAIRY230	230	1						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			0.03657	0.08630	308.3	518.2
3962	2444.1	2644.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	94.4	173.0	0.03215	0.02899	83.5	154.4
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			0.03657	0.08630	297.6	508.5
3979	2461.9	2657.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	93.9	173.0	0.03215	0.02899	83.5	154.9
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			-0.03657	-0.08630	-281.9	-494.4
3998	2469.7	2663.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	93.6	173.0	0.03215	0.02899	83.5	155.1
			C:130767 STOLE230	230	130770 SHLDN230	230	1						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1			0.03657	0.08630	275.1	488.2
4015	2491.8	2679.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1087.7	-1703.0	-0.24694	-0.22813	-970.7	-1539.2
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			0.03126	-0.11590	-428.0	-716.8
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.12269	-0.04825	-400.1	-520.4
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.05276	-0.15521	-928.1	-1314.9
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.00201	0.00542	260.5	274.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00725	-0.15077	-827.1	-1202.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.00445	0.00000	3.8	3.8
4035	2505.2	2688.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1204.1	-1725.0	-0.20794	-0.16204	-1086.0	-1491.9
			C:137451 LEEDS 3	345	137455 ATHENS	345	1						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1			-0.29765	0.15420	396.8	783.1
4041	2507.1	2690.3	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-614.4	-927.0	-0.12467	-0.12460	-519.7	-832.1
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.01330	0.00294	753.9	761.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.01330	0.00255	656.5	662.9
			Open 156 MCY765SW	765	147827 MARCY765	765	1						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00275	-22.3	-29.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.06171	0.00000	-157.9	-157.9
			Open 147828 MASS 765	765	147837 MASS230A	230	1						
			Open 158 MS765SW2	765	147828 MASS 765	765	1						
			Open 157 MS765SW1	765	147828 MASS 765	765	1						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						

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			Set bus 181319 CHAT G3	120	load to	357.0 MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0 percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0 MW dispatch						
4052	2509.3	2691.9	L: 130767 STOLE230	230	130770 SHLDN230	230 1	332.4	540.0	0.08272	0.08630	275.1	491.7
			C:BUS:WATERCURE_345			1742						
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1	-0.05113	-0.12460		-519.7	-832.3	
			Open 130757 WATRC345	345	130768 WATRC230	230 1	0.11608	-0.08574		265.0	49.8	
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.04425	0.00000		-0.0	-0.0	
4069	2514.5	2695.6	L: 135858 GOLAH115	115	135862 MUMFORD1	115 1	-77.6	-173.0	-0.03796	-0.02948	-43.4	-117.5
			C:130754 KINTI345	345	149000 ROCH 345	345 1	273					
			Open 130754 KINTI345	345	149000 ROCH 345	345 1	-0.04152	0.20415		823.2	1336.5	
4138	2529.8	2706.7	L: Interface 73 MarcySouthS				1690.0	2552.0	0.34073			
			Base Case									
4186	2534.8	2710.3	L: 130836 N.WAV115	115	131018 LOUNS115	115 1	25.4	173.0	0.05822	0.03872	1.8	100.0
			C:130755 OAKDL345	345	130757 WATRC345	345 1	274					
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.09271	-0.21033		-254.7	-787.9	
5701	2560.7	2729.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115 1	91.5	173.0	0.03183	0.02899	83.5	157.8
			C:135850 SOUR-114	115	135861 MORTIMER	115 1	749					
			Open 135850 SOUR-114	115	135861 MORTIMER	115 1	0.10452	0.02715		76.0	145.5	
5708	2562.6	2730.3	*L: 135859 LAPPINS1	115	135866 NLEROYTA	115 1	92.4	173.0	0.03147	0.02899	83.5	157.8
			C:135851 SHEL-113	115	135874 SWDN-113	115 1	751					
			Open 135851 SHEL-113	115	135874 SWDN-113	115 1	0.10304	0.02402		85.6	147.1	
5735	2578.3	2741.7	L: 95976 STONYCRK	230	130770 SHLDN230	230 1	-301.1	-540.0	-0.09265	-0.08630	-281.9	-504.4
			C:135272-135289			1890						
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	-0.30709	0.02066		62.3	115.6	
			Open 135289 NILE115	115	135360 NILEXFR	34.5 1	0.00496	-0.00117		4.5	1.4	
			Open 135272 DUGN-157	115	135289 NILE115	115 1	-0.04921	0.00000		1.2	1.2	
5737	2578.5	2741.9	*L: 95976 STONYCRK	230	130770 SHLDN230	230 1	-301.1	-540.0	-0.09265	-0.08630	-281.9	-504.5
			C:135289 NILE115	115	147949 WELLSVLE	115 1	558					
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	-0.30736	0.02066		62.3	115.6	
5744	2582.4	2744.7	L: 135861 MORTIMER	115	135873 SWDN-111	115 1	-67.9	-153.0	-0.03297	-0.02727	-51.9	-122.3
			C:135850 SOUR-114	115	135861 MORTIMER	115 1	749					
			Open 135850 SOUR-114	115	135861 MORTIMER	115 1	-0.21009	0.02715		76.0	146.1	
5751	2588.5	2749.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	304.8	478.0	0.06691	0.06428	264.2	430.6
			C:130755 OAKDL345	345	131128 LAPEER	345 1	277					
			Open 130755 OAKDL345	345	131128 LAPEER	345 1	-0.06156	-0.04278		-658.8	-769.6	
5808	2612.5	2766.5	L: 146758 CHESTER	138	146771 SHOEM138	138 1	-195.3	-317.0	-0.04657	-0.02116	-116.9	-172.2
			C:125001 ROCK TAV	345	146754 MDTN TAP	345 1	70					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345 1	0.17873	-0.14215		-438.7	-810.1	
5811	2617.3	2769.9	L: 137451 LEEDS 3	345	147831 GILB 345	345 1	-1332.9	-1912.0	-0.22125	-0.15450	-982.8	-1387.2
			C:BUS:N.S._77			1724						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345 1	0.20828	-0.16316		-664.8	-1091.8	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115 1	0.17586	0.00469		245.1	257.4	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345 01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345 1	-0.22922	0.14707		838.7	1223.6	
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1	-0.13646	-0.00091		169.3	166.9	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 1	0.00000	-0.15055		-828.1	-1222.1	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 2	0.15776	0.00000		-250.0	-250.0	
5829	2629.8	2778.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	285.4	478.0	0.07325	0.06428	264.2	433.3
			C:147834 NIAG 345	345	149000 ROCH 345	345 1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345 1	0.02998	0.29932		704.5	1491.6	
5830	2630.1	2779.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	292.1	478.0	0.07069	0.06428	264.2	433.3
			C:130774 BATH 115	115	131347 HOWARD	115 1	299					
			Open 130774 BATH 115	115	131347 HOWARD	115 1	-0.28676	-0.02237		-97.1	-155.9	
5840	2637.9	2784.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230 1	329.9	478.0	0.05616	0.06428	264.2	433.8
			C:BUS:WATERCURE_345			1742						
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1	-0.04479	-0.12460		-519.7	-848.3	
			Open 130757 WATRC345	345	130768 WATRC230	230 1	0.15980	-0.08574		265.0	38.8	
			Open 130755 OAKDL345	345	130757 WATRC345	345 1	-0.03638	0.00000		-0.0	-0.0	
5848	2639.7	2786.1	L: 130764 MEYER230	230	131343 MEYER M4	34.5 1	201.2	336.0	0.05105	0.02202	106.9	165.0
			C:130751 CNDGUA_T	230	130764 MEYER230	230 1	265					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230 1	-0.45165	-0.06428		-208.9	-378.5	
5877	2652.1	2795.1	L: 130767 STOLE230	230	130770 SHLDN230	230 1	294.3	540.0	0.09265	0.08630	275.1	504.0
			C:135272-135289			1890						
			Open 135289 NILE115	115	147949 WELLSVLE	115 1	0.30709	0.02066		62.3	117.1	

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				Open 135289 NILE115	115	135360 NILEXFR	34.5	1		-0.00496	-0.00117	4.5	1.3	
				Open 135272 DUGN-157	115	135289 NILE115	115	1		0.04921	0.00000	1.2	1.2	
5879	2652.3	2795.2*L:	130767	STOLE230	230	130770 SHLDN230	230	1	294.3	540.0	0.09265	0.08630	275.1	504.0
				C:135289 NILE115	115	147949 WELLSVLE	115	1					558	
				Open 135289 NILE115	115	147949 WELLSVLE	115	1		0.30736	0.02066	62.3	117.1	
5888	2654.1	2796.5*L:	130751	CNDGUA_T	230	130761 AVOCA230	230	1	304.6	478.0	0.06534	0.06428	264.2	434.8
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1					462	
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.05429	-0.01951	-743.2	-795.0	
5949	2667.7	2806.3 L:	130751	CNDGUA_T	230	130764 MEYER230	230	1	-268.4	-478.0	-0.07856	-0.06428	-208.9	-380.3
				C:130757 WATRC345	345	135249 ARMENMTN	345	1					281	
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11461	-0.12460	-519.7	-852.1	
5974	2670.0	2808.0 L:	130751	CNDGUA_T	230	130764 MEYER230	230	1	-267.7	-478.0	-0.07877	-0.06428	-208.9	-380.5
				C:SER:HCWC/NWES									1717	
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.00558	-0.03514	74.0	-19.9	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11477	-0.12460	-519.7	-852.3	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00933	0.00000	-45.4	-45.4	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA				
6112	2680.0	2815.2 L:	130750	COOPC345	345	130753 FRASR345	345	1	-1047.9	-1703.0	-0.24444	-0.22813	-970.7	-1582.1
				C:BUS:N.S._77									1724	
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.04149	-0.16316	-664.8	-1102.1	
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.02355	0.00469	245.1	257.7	
				Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA				
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.06564	0.14707	838.7	1232.9	
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.00083	-0.00091	169.3	166.8	
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.00000	-0.15055	-828.1	-1231.6	
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.00064	0.00000	-250.0	-250.0	
7218	2685.2	2818.9 L:	126294	PLTVLLEY	345	137455 ATHENS	345	1	-1234.3	-1725.0	-0.18273	-0.15420	-1051.9	-1465.9
				C:125000 HURLEY 3	345	137451 LEEDS 3	345	1					63	
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.22182	-0.12858	-822.7	-1168.0	
7389	2689.5	2822.1 L:	130751	CNDGUA_T	230	130764 MEYER230	230	1	-267.3	-478.0	-0.07834	-0.06428	-208.9	-381.7
				C:SER:HC-WC_30&W-F_171									1711	
				Open 135277 FALCONER	115	200579 WARREN	115	1		-0.04698	-0.00293	-7.0	-14.9	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11394	-0.12460	-519.7	-854.8	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00956	0.00000	-45.4	-45.4	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA				
7548	2701.0	2830.4 L:	130757	WATRC345	345	135249 ARMENMTN	345	1	-590.5	-927.0	-0.12460	-0.12460	-519.7	-856.2
				C:GEN:9 MI PT2									1671	
				Remove unit 2 from bus	136700	9M PT 2G	25.0	1126.9	MW	dispatch				
7549	2701.1	2830.4 L:	95646	DEANWIND	230	130772 SHRED230	230	1	143.0	440.0	0.10995	0.05660	78.4	231.3
				C:130755 OAKDL345	345	130757 WATRC345	345	1					274	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.25366	-0.21033	-254.7	-822.8	
7582	2713.0	2839.1 L:	130751	CNDGUA_T	230	130764 MEYER230	230	1	-264.9	-478.0	-0.07856	-0.06428	-208.9	-383.3
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		-0.11461	0.12460	488.7	826.7	
7600	2720.1	2844.2 L:	130757	WATRC345	345	135249 ARMENMTN	345	1	-588.1	-927.0	-0.12460	-0.12460	-519.7	-858.6
				C:SIN:250									1787	
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00000	0.00000	-0.0	-0.0	
				Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
7611	2724.4	2847.3 L:	135861	MORTIMER	115	135873 SWDN-111	115	1	-62.4	-153.0	-0.03327	-0.02727	-51.9	-126.2
				C:135861 MORTIMER	115	135874 SWDN-113	115	1					769	
				Open 135861 MORTIMER	115	135874 SWDN-113	115	1		0.23295	-0.02577	-45.0	-115.2	
7619	2727.1	2849.3 L:	131018	LOUNS115	115	131850 CNYOG115	115	1	-4.6	143.0	0.05413	0.03872	-2.0	103.6
				C:BUS:WATERCURE_345									1742	
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.04975	-0.12460	-519.7	-859.5	
				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.10747	-0.08574	265.0	31.2	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.04790	0.00000	-0.0	-0.0	
7622	2727.4	2849.5 L:	137451	LEEDS 3	345	137453 N.SCOT99	345	2	-1118.0	-1724.0	-0.22218	-0.15077	-827.1	-1238.3
				C:137452 N.SCOT77	345	137453 N.SCOT99	345	1					1087	
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.43762	-0.16316	-664.8	-1109.8	
7624	2728.0	2849.9 L:	130757	WATRC345	345	135249 ARMENMTN	345	1	-587.1	-927.0	-0.12460	-0.12460	-519.7	-859.6
				C:GEN:SEABROOK									1683	





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			C:130755 OAKDL345	345	130757 WATRC345	345	1	274							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.25366	-0.21033	-254.7	-836.9
7760	2779.4	2887.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-554.6	-927.0	-0.13400		-0.12460	-519.7	-866.0
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289							
			Open 130764 MEYER230	230	134750 DAIRY230	230	1					0.10893	-0.08630	-320.3	-560.2
7800	2789.2	2894.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-553.3	-927.0	-0.13400		-0.12460	-519.7	-867.2
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461							
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1					-0.10893	0.08630	308.3	549.0
7803	2789.6	2894.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		38.9	-143.0	-0.06520		-0.03872	4.1	-103.9
			C:BUS:WATERCURE_230					1743							
			Open 95646 DEANWIND	230	130768 WATRC230	230	1					0.22225	-0.05660	-36.7	-194.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1					0.16219	-0.08574	265.0	25.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1					-0.11575	0.00000	0.4	0.4
7850	2796.0	2899.0	L: 137200 EDIC	345	147833 MARCY T1	345	1		714.9	1793.0	0.38559		0.27732	108.5	883.9
			C:136156 VOLNEY	345	147833 MARCY T1	345	1	811							
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1					0.86552	0.12510	700.6	1050.3
7856	2796.7	2899.5	L: 130762 GARDV230	230	130767 STOLE230	230	1		248.7	478.0	0.08200		0.05773	99.4	260.8
			C:130766 ROBIN230	230	130767 STOLE230	230	1	292							
			Open 130766 ROBIN230	230	130767 STOLE230	230	1					0.84957	0.02857	175.7	255.6
7866	2797.9	2900.4	*L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-552.1	-927.0	-0.13400		-0.12460	-519.7	-868.3
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42							
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1					-0.10893	0.08630	297.6	539.1
7937	2802.1	2903.4	L: 130787 CODNT115	115	130830 MONTR115	115	1		2.3	-144.0	-0.05221		-0.03504	23.1	-75.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.08164	-0.21033	-254.7	-844.1
9095	2810.2	2909.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1196.6	-1725.0	-0.18804		-0.16204	-1086.0	-1541.3
			C:130750 COOPC345	345	130753 FRASR345	345	1	259							
			Open 130750 COOPC345	345	130753 FRASR345	345	1					0.11396	-0.22813	-970.7	-1611.8
9265	2814.9	2912.7	L: 130762 GARDV230	230	130767 STOLE230	230	1		241.6	478.0	0.08396		0.05773	99.4	261.9
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	293							
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1					-0.47473	-0.05526	-299.7	-455.3
9331	2819.0	2915.6	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		840.4	1685.0	0.29961		0.29932	704.5	1548.2
			C:HQ-NY-765-New					1887							
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					0.05323	0.00294	753.9	762.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.05323	0.00255	656.5	663.7
			Open 156 MCY765SW	765	147827 MARCY765	765	1		NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.00275	-22.3	-30.1
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1					-0.04819	0.00000	-157.9	-157.9
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1		NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1		NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0									
			Set bus 181319 CHAT G3	120	load to	357.0									
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0									
			Set bus 181419 CHAT G4	120	load to	357.0									
9342	2819.6	2916.1	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1033.7	-1703.0	-0.23736		-0.22813	-970.7	-1614.0
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.05592	-0.16509	-1126.7	-1592.2
9373	2821.1	2917.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-65.9	-173.0	-0.03796		-0.02948	-66.1	-149.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	272							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1					0.04152	-0.20415	3.4	-572.5
9423	2833.3	2926.0	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1031.1	-1703.0	-0.23714		-0.22813	-970.7	-1617.1
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2					0.05560	-0.16204	-1086.0	-1545.1
9464	2851.5	2939.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1194.1	-1725.0	-0.18617		-0.16204	-1086.0	-1548.0
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1					-0.20766	0.11619	521.0	852.3
9465	2851.6	2939.2	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1028.4	-1703.0	-0.23658		-0.22813	-970.7	-1621.3
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1					0.05480	-0.15420	-1051.9	-1491.6
9466	2851.6	2939.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		831.5	1685.0	0.29932		0.29932	704.5	1558.0
			C:GEN:9 MI PT2					1671							

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			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch							
9472	2856.3	2942.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	93.2	180.0	0.03039	0.02361	93.3	160.7
			C:130754 KINTI345	345	147834 NIAG 345	345	1	272					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03325	-0.20415	3.4 -579.7
9486	2861.7	2946.5	*L: 130750 COOPC345	345	130753 FRASR345	345	1	-980.3	-1703.0	-0.25255	-0.22813	-970.7	-1623.6
			C:137200 EDIC	345	147833 MARCY T1	345	1	1029					
			Open 137200 EDIC	345	147833 MARCY T1	345	1				-0.08806	0.27732	108.5 902.1
9492	2864.1	2948.2	L: 130826 MEYER115	115	131343 MEYER M4	34.5	1	-190.3	-336.0	-0.05086	-0.02180	-95.9	-158.4
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	265					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1				0.45205	-0.06428	-208.9 -393.0
9496	2865.2	2949.1	L: Interface	73	MarcySouthS			1941.8	3048.0	0.38608	0.34073	1690.0	2666.3
			C:BUS:N.S._99					1725					
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.09778	-0.11590	-428.0 -760.1
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.10744	-0.04825	-400.1 -538.4
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.16109	-0.15521	-928.1 -1372.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.01545	0.00542	260.5 276.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.02594	-0.15077	-827.1 -1259.1
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.00583	0.00000	3.8 3.8
9504	2871.3	2953.4	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-569.0	-927.0	-0.12467	-0.12460	-474.3	-832.0
			C:HQ-NY-765-New					1887					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.01330	0.00294	753.9 762.3
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.01330	0.00255	656.5 663.8
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.00275	-22.3 -30.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.06171	0.00000	-157.9 -157.9
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
9507	2872.4	2954.2	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	9.0	143.0	0.04665	0.03872	-2.0	109.2
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37					
			Open 95646 DEANWIND	230	130772 SHRED230	230	1				0.14019	0.05660	78.4 241.0
9508	2872.4	2954.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4	-1725.0	-0.16660	-0.16204	-1086.0	-1551.4
			C:125002 ROSETON	345	126281 FISHKILL	345	1	71					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.12774	0.03571	1256.5 1359.0
9509	2872.4	2954.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4	-1725.0	-0.16660	-0.16204	-1086.0	-1551.4
			C:SIN:430					1792					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.12774	0.03571	1256.5 1359.0
9523	2877.4	2957.9	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1132.1	-1724.0	-0.20570	-0.15055	-828.1	-1261.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083					
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.35787	-0.15408	-849.6 -1292.9
9530	2881.6	2960.9	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-982.8	-1428.0	-0.15450			
			Base Case										
9533	2883.8	2962.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-51.8	-153.0	-0.03511	-0.02727	-51.9	-130.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	272					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				0.03841	-0.20415	3.4 -585.3
9534	2886.2	2964.3	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	25.0	-143.0	-0.05822	-0.03872	48.6	-63.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09271	-0.21033	-254.7 -861.8
9539	2887.5	2965.2	L: 136150 CLAY	345	149001 PANNELL3	345	2	-229.6	-1434.0	-0.41710	-0.26493	-145.8	-910.8
			C:136150 CLAY	345	149001 PANNELL3	345	1	794					
			Open 136150 CLAY	345	149001 PANNELL3	345	1				0.57628	-0.26406	-145.4 -907.9
9546	2891.7	2968.2	L: 130753 FRASR345	345	147831 GILB 345	345	1	650.0	1524.0	0.30224	0.20275	226.7	812.9
			C:130750 COOPC345	345	130753 FRASR345	345	1	259					
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.43611	-0.22813	-970.7 -1630.4
9548	2892.2	2968.6	L: 136150 CLAY	345	149001 PANNELL3	345	1	-229.3	-1434.0	-0.41653	-0.26406	-145.4	-909.1
			C:136150 CLAY	345	149001 PANNELL3	345	2	795					
			Open 136150 CLAY	345	149001 PANNELL3	345	2				0.57549	-0.26493	-145.8 -912.0
9549	2892.7	2968.9	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-42.9	143.0	0.06427	0.03872	-2.0	110.0

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			C:130763 HILSD230	230	130768 WATRC230	230	1	287											
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.17952	0.14233	-227.9	183.8					
9553	2893.6	2969.6	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.0					
			C:130765 OAKDL230	230	130772 SHRED230	230	1	290											
			Open 130765 OAKDL230	230	130772 SHRED230	230	1												
9554	2894.3	2970.0	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.1					
			C:SER:OAKDALE_WATRC230					1704											
			Open 130765 OAKDL230	230	130772 SHRED230	230	1												
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1												
9556	2894.5	2970.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		8.0	143.0	0.04665	0.03872	-2.0	110.1					
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	291											
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1												
9571	2905.5	2978.2	L: Interface	10	F-To-G				3207.2	4643.0	0.49418								
			Base Case																
9574	2906.3	2978.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		766.5	1685.0	0.31603	0.29932	704.5	1574.4					
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
9577	2907.0	2979.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-78.0	-173.0	-0.03269	-0.02948	-320.3	-571.2					
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
9589	2912.0	2982.9	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		70.3	159.0	0.03045	0.02270	66.1	132.2					
			C:136150 CLAY	345	149001 PANNELL3	345	2	795											
			Open 136150 CLAY	345	149001 PANNELL3	345	2												
9590	2912.0	2982.9	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		25.1	143.0	0.04048	0.03872	-2.0	110.8					
			C:130755 OAKDL345	345	131128 LAPEER	345	1	277											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
9594	2913.7	2984.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		764.2	1685.0	0.31603	0.29932	704.5	1576.6					
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
9595	2914.1	2984.4	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-43.8	-558.0	-0.17647	-0.12447	-10.5	-373.3					
			C:147834 NIAG 345	345	157051 BECK B	345	1	1487											
			Open 147834 NIAG 345	345	157051 BECK B	345	1												
9596	2914.2	2984.5	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-43.7	-558.0	-0.17647	-0.12447	-10.5	-373.3					
			C:147834 NIAG 345	345	157050 BECK A	345	1	1486											
			Open 147834 NIAG 345	345	157050 BECK A	345	1												
9598	2916.5	2986.1	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		70.3	159.0	0.03041	0.02270	66.1	132.3					
			C:136150 CLAY	345	149001 PANNELL3	345	1	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	1												
9600	2917.6	2986.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-6.9	-143.0	-0.04665	-0.03872	4.1	-108.9					
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37											
			Open 95646 DEANWIND	230	130772 SHRED230	230	1												
9607	2920.2	2988.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		762.1	1685.0	0.31603	0.29932	704.5	1578.5					
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
9609	2920.6	2989.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-77.5	-173.0	-0.03269	-0.02948	-66.1	-152.2					
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	461											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
9618	2925.5	2992.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1124.9	-1724.0	-0.20478	-0.15077	-827.1	-1268.2					
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083											
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2												
9619	2925.6	2992.7	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		45.0	-143.0	-0.06427	-0.03872	4.1	-109.2					
			C:130763 HILSD230	230	130768 WATRC230	230	1	287											
			Open 130763 HILSD230	230	130768 WATRC230	230	1												
9626	2929.8	2995.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		759.1	1685.0	0.31603	0.29932	704.5	1581.4					
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1												
9631	2931.5	2997.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		807.5	1685.0	0.29932	0.29932	704.5	1581.9					
			C:GEN:GINNA					1672											
			Remove unit 1 from bus	149140	GINNA 19	19.0		582.0 MW	dispatch										
9633	2932.8	2997.9	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-77.1	-173.0	-0.03269	-0.02948	-66.1	-152.5					
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
9636	2934.0	2998.8	*L: 147834 NIAG 345	345	149000 ROCH 345	345	1		757.7	1685.0	0.31603	0.29932	704.5	1582.7					
			C:130767 STOLE230	230	130770 SHLDN230	230	1	294											
			Open 130767 STOLE230	230	130770 SHLDN230	230	1												

WestCentral

9644	2938.9	3002.3	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:130765 OAKDL230	230	130772	SHRED230	230	1						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14019	-0.05660	-71.3	-237.7
9649	2939.5	3002.7	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:SER:OAKDALE_WATRC230											1704
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14019	-0.05660	-71.3	-237.7
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.09680	0.00000	0.3	0.3
9650	2939.8	3002.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-5.9	-143.0	-0.04665	-0.03872	4.1	-109.7
			C:130765 OAKDL230	230	130838	OAKDL115	115	1						291
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.14019	0.05660	71.0	237.4
9661	2944.3	3006.2	L: 131018 LOUN115	115	131850	CNYOG115	115	1	-2.0	112.0	0.03872			
			Base Case											
9682	2949.9	3010.3	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	559.5	927.0	0.12460	0.12460	488.7	856.2
			C:GEN:9 MI PT2											1671
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW			dispatch					
9690	2950.6	3010.8	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-76.5	-173.0	-0.03269	-0.02948	-66.1	-153.0
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1						41
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1			0.03718	-0.08630	-281.9	-536.6
9714	2958.4	3016.4	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-76.3	-173.0	-0.03269	-0.02948	-66.1	-153.3
			C:130767 STOLE230	230	130770	SHLDN230	230	1						294
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			-0.03718	0.08630	275.1	530.4
9734	2964.2	3020.6	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-23.0	-143.0	-0.04048	-0.03872	4.1	-110.7
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1			0.04116	-0.04278	-658.8	-785.6
9757	2969.0	3024.1	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	557.1	927.0	0.12460	0.12460	488.7	858.6
			C:SIN:250											1787
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch					
9825	2977.0	3029.8	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	556.1	927.0	0.12460	0.12460	488.7	859.6
			C:GEN:SEAB&OMS											1685
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch					
9826	2977.0	3029.8	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	556.1	927.0	0.12460	0.12460	488.7	859.6
			C:GEN:SEABROOK											1683
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch					
9852	2979.9	3031.9	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-62.9	-153.0	-0.03024	-0.02727	-51.9	-133.1
			C:130764 MEYER230	230	134750	DAIRY230	230	1						289
			Open 130764 MEYER230	230	134750	DAIRY230	230	1			0.03439	-0.08630	-320.3	-577.5
9900	2982.4	3033.7	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1117.6	-1724.0	-0.20333	-0.15055	-828.1	-1277.1
			C:137451 LEEDS 3	345	137453	N.SCOT99	345	2						1084
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2			0.35002	-0.15077	-827.1	-1276.8
11187	2993.5	3041.8	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-62.5	-153.0	-0.03024	-0.02727	-51.9	-133.5
			C:131122 WTHRS230	230	134750	DAIRY230	230	1						461
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1			-0.03439	0.08630	308.3	566.7
11214	2994.4	3042.4	L: 137200 EDIC	345	147833	MARCY T1	345	1	668.5	1793.0	0.37552	0.27732	108.5	938.9
			C:137200 EDIC	345	137452	N.SCOT77	345	1						1027
			Open 137200 EDIC	345	137452	N.SCOT77	345	1			0.66771	0.14707	838.7	1279.1
11296	2997.8	3044.9*L:	131018 LOUN115	115	131850	CNYOG115	115	1	3.1	143.0	0.04665	0.03872	-2.0	114.1
			C: 95646 DEANWIND	230	130768	WATRC230	230	1						36
			Open 95646 DEANWIND	230	130768	WATRC230	230	1			-0.14019	-0.05660	-36.7	-206.3
11305	2998.6	3045.4	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1115.0	-1724.0	-0.20311	-0.15077	-827.1	-1279.2
			C:137451 LEEDS 3	345	137452	N.SCOT77	345	1						1082
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			0.34761	-0.15055	-828.1	-1279.5
11309	2998.8	3045.6	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	4.1	-112.0	-0.03872			
			Base Case											

VolneyEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, JUL 11 2011 16:10  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3937  
 First violation - 687.2 MW.

Study transfer. From ON\_C\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3937 violations

Interface-1 Interface 3 VOLNEY EAST- Init.Flow= 3259.82 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	687.2	3947.1	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1518.6	-1724.0	-0.29890	-0.15180	-827.1 -931.4
			C:BUS:N.S._77 1724					
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16325	-664.8 -777.0
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00471	245.1 248.4
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA				
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.14910	838.7 941.2
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00090	169.3 168.7
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15159	-828.1 -932.3
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0 -250.0
2	805.8	4065.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.3	383.0	0.07411	0.06053	263.7 312.5
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.11845	-519.7 -615.1
3	816.6	4076.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.07405	0.06053	263.7 313.2
			C:SER:HCWC/NWES 1717					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.02694	74.0 52.0
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.11845	-519.7 -616.4
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	-0.02437	-45.4 -65.3
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	819.7	4079.6	L: 130774 BATH 115 115 131347 HOWARD 115 1	-133.2	-159.0	-0.03146	-0.02317	-97.1 -116.0
			C:130751 CNDGUA_T 230 130761 AVOCA230 230 1 264					
			Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1			-0.13684	0.06053	264.2 313.9
5	820.4	4080.2	L: 130774 BATH 115 115 131347 HOWARD 115 1	-133.2	-159.0	-0.03146	-0.02317	-97.1 -116.1
			C:SER:MEYER_HILLS_D_68 1714					
			Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1			-0.13684	0.06053	263.7 313.4
			Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1			-0.09582	0.00000	0.5 0.5
6	821.0	4080.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.2	383.0	0.07409	0.06053	263.7 313.4
			C:SER:HC-WC_30&W-F_171 1711					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	0.00617	-7.0 -2.0
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.11845	-519.7 -616.9
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	-0.02437	-45.4 -65.4
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
7	822.0	4081.8	L: 130774 BATH 115 115 131347 HOWARD 115 1	-133.1	-159.0	-0.03146	-0.02317	-97.1 -116.1
			C:130761 AVOCA230 230 131154 STONY RIDGE 230 1 284					
			Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1			-0.13684	0.06053	263.7 313.5
8	832.7	4092.5	L: 130774 BATH 115 115 131347 HOWARD 115 1	-132.8	-159.0	-0.03146	-0.02317	-97.1 -116.3
			C:130763 HILSD230 230 131154 STONY RIDGE 230 1 288					
			Open 130763 HILSD230 230 131154 STONY RIDGE 230 1			0.13684	-0.06053	-261.3 -311.7
9	838.9	4098.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.8	-383.0	-0.07411	-0.06053	-261.3 -312.1
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					

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10	849.7	4109.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-320.1	-383.0	-0.07405	0.11461	-0.11845	-519.7	-619.0
			C:SER:HCWC/NWES				1717							
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00558	-0.02694	74.0	51.1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11477	-0.11845	-519.7	-620.3
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00933	-0.02437	-45.4	-66.1
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
11	854.2	4114.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-319.7	-383.0	-0.07409		-0.06053	-261.3	-313.0
			C:SER:HC-WC_30&W-F_171				1711							
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04698	0.00617	-7.0	-1.8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11394	-0.11845	-519.7	-620.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00956	-0.02437	-45.4	-66.2
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
12	878.3	4138.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	319.7	383.0	0.07204		0.06053	263.7	316.9
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.11461	0.10041	488.7	576.8
13	910.3	4170.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	318.1	383.0	0.07131		0.06053	263.7	318.8
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.11461	-0.09408	-474.3	-559.9
14	912.3	4172.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-317.3	-383.0	-0.07204		-0.06053	-261.3	-316.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.11461	0.10041	488.7	580.3
15	944.7	4204.5	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-315.6	-383.0	-0.07131		-0.06053	-261.3	-318.5
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.11461	-0.09408	-474.3	-563.2
16	999.6	4259.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	329.3	383.0	0.05367		0.06053	263.7	324.2
			C:BUS:WATERCURE_345				1742							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04479	-0.11845	-519.7	-638.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15980	-0.07613	265.0	188.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.03638	0.00000	-0.0	-0.0
17	1045.4	4305.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-326.9	-383.0	-0.05367		-0.06053	-261.3	-324.6
			C:BUS:WATERCURE_345				1742							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.04479	-0.11845	-519.7	-643.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.15980	-0.07613	265.0	185.4
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.03638	0.00000	-0.0	-0.0
18	1051.0	4310.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-970.7	-1207.0	-0.22480				
			Base Case											
19	1060.6	4320.4	L: 130774 BATH 115	115	131347 HOWARD	115	1	-125.6	-159.0	-0.03146		-0.02317	-97.1	-121.6
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1							
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1				0.13684	-0.06053	-208.9	-273.1
20	1102.0	4361.8	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	123.1	159.0	0.03254		0.02291	92.1	117.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04414	0.21806	704.5	944.8
21	1167.3	4427.1	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03029		0.02200	87.5	113.2
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1							
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.13684	0.06053	264.2	334.9
22	1168.0	4427.8	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03029		0.02200	87.5	113.2
			C:SER:MEYER_HILLSD_68				1714							
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1				0.13684	0.06053	263.7	334.4
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.09582	0.00000	0.5	0.5
23	1169.6	4429.4	L: 131342 BENET115	115	131347 HOWARD	115	1	123.6	159.0	0.03029		0.02200	87.5	113.2
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1							
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1				0.13684	0.06053	263.7	334.5
24	1180.7	4440.5	L: 131342 BENET115	115	131347 HOWARD	115	1	123.2	159.0	0.03029		0.02200	87.5	113.5
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1							
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1				-0.13684	-0.06053	-261.3	-332.7
25	1229.4	4489.2	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.3	383.0	0.06403		0.06053	263.7	338.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1							
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.06156	-0.05676	-658.8	-728.6
26	1266.7	4526.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	304.1	383.0	0.06231		0.06053	263.7	340.4
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1							

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.05429	-0.03265	-743.2	-784.6			
27	1267.8	4527.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1				-301.8	-383.0	-0.06403	-0.06053	-261.3	-338.0	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	277									
			Open 130755 OAKDL345	345	131128 LAPEER	345	1							0.06156	-0.05676	-658.8	-730.8
28	1304.3	4564.1	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	1325			108.5	153.0	0.03415	0.02411	76.0	107.5	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1										
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							0.04604	0.21806	704.5	988.9
29	1306.1	4566.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	462			-301.6	-383.0	-0.06231	-0.06053	-261.3	-340.3	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1										
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1							0.05429	-0.03265	-743.2	-785.9
30	1361.2	4621.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	299			291.6	383.0	0.06718	0.06053	263.7	346.1	
			C:130774 BATH 115	115	131347 HOWARD	115	1										
			Open 130774 BATH 115	115	131347 HOWARD	115	1							-0.28676	-0.02317	-97.1	-128.6
31	1396.5	4656.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	183			-1428.2	-1725.0	-0.21257	-0.16234	-1086.0	-1312.6	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1										
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1							0.30372	-0.16538	-1126.7	-1357.7
32	1397.7	4657.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	299			-289.1	-383.0	-0.06718	-0.06053	-261.3	-345.9	
			C:130774 BATH 115	115	131347 HOWARD	115	1										
			Open 130774 BATH 115	115	131347 HOWARD	115	1							0.28676	-0.02317	-97.1	-129.4
33	1409.1	4668.9	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	472			288.8	383.0	0.06684	0.06053	263.7	349.0	
			C:131342 BENET115	115	131347 HOWARD	115	1										
			Open 131342 BENET115	115	131347 HOWARD	115	1							0.28676	0.02200	87.5	118.5
34	1417.5	4677.3	L: 131342 BENET115	115	131347 HOWARD	115	1	265			116.1	159.0	0.03029	0.02200	87.5	118.7	
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1										
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1							-0.13684	-0.06053	-208.9	-294.7
35	1445.8	4705.6	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	472			-286.4	-383.0	-0.06684	-0.06053	-261.3	-348.8	
			C:131342 BENET115	115	131347 HOWARD	115	1										
			Open 131342 BENET115	115	131347 HOWARD	115	1							-0.28676	0.02200	87.5	119.3
36	1452.2	4712.0	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	1325			118.2	173.0	0.03775	0.02703	83.5	122.8	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1										
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							0.04916	0.21806	704.5	1021.1
40	1509.5	4769.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-1086.0	-1331.0	-0.16234				
			Base Case														
42	1515.9	4775.8	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	273			107.5	153.0	0.03001	0.02411	76.0	112.6	
			C:130754 KINTI345	345	149000 ROCH 345	345	1										
			Open 130754 KINTI345	345	149000 ROCH 345	345	1							0.03824	0.15432	823.2	1057.1
44	1557.4	4817.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-320.3	-430.0	-0.07041				
			Base Case														
46	1564.8	4824.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	185			-1399.0	-1725.0	-0.20832	-0.16234	-1086.0	-1340.0	
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1										
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1							0.29765	-0.15448	-1051.9	-1293.6
51	1587.1	4846.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	263			-1270.5	-1703.0	-0.27254	-0.22480	-970.7	-1327.5	
			C:130750 COOPC345	345	147833 MARCY T1	345	1										
			Open 130750 COOPC345	345	147833 MARCY T1	345	1							0.41671	-0.11457	-719.3	-901.1
70	1675.3	4935.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	273			117.2	173.0	0.03333	0.02703	83.5	128.8	
			C:130754 KINTI345	345	149000 ROCH 345	345	1										
			Open 130754 KINTI345	345	149000 ROCH 345	345	1							0.04083	0.15432	823.2	1081.7
89	1717.8	4977.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	183			-1377.5	-1725.0	-0.20229	-0.15448	-1051.9	-1317.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1										
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1							0.28903	-0.16538	-1126.7	-1410.8
107	1792.0	5051.8	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	69			1295.0	1793.0	0.27791	0.17552	842.1	1156.6	
			C:125001 ROCK TAV	345	130750 COOPC345	345	2										
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2							-0.62491	-0.16384	-724.8	-1018.4
113	1795.1	5054.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	184			-1363.9	-1725.0	-0.20114	-0.15448	-1051.9	-1329.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2										
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2							0.28739	-0.16234	-1086.0	-1377.4
121	1804.9	5064.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	273			1143.0	1685.0	0.30028	0.21806	704.5	1098.0	
			C:130754 KINTI345	345	149000 ROCH 345	345	1										
			Open 130754 KINTI345	345	149000 ROCH 345	345	1							0.53277	0.15432	823.2	1101.7
123	1807.0	5066.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1				-1051.9	-1331.0	-0.15448				
			Base Case														
126	1809.2	5069.1	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	1725			-346.7	-402.0	-0.03058	-0.00805	-236.5	-251.1	
			C:BUS:N.S._99														
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1							0.13877	-0.11752	-428.0	-640.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1							0.01297	-0.04547	-400.1	-482.4



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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.03885	-0.15750	-928.1	-1213.1
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		-0.05287	0.00544	260.5	270.4
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		-0.00510	-0.15180	-827.1	-1101.8
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.01886	0.00000	3.8	3.8
178	1868.3	5128.1	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1					
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.04999	0.21806	704.5	1111.9
258	1930.1	5189.9	L: 137451 LEEDS 3	345	147831	GILB 345	345	1		-1471.2	-1912.0	-0.22837	
			C:BUS:N.S._99						1725				
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		0.11712	-0.11752	-428.0	-654.8
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.64409	-0.04547	-400.1	-487.9
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.17080	-0.15750	-928.1	-1232.1
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.04088	0.00544	260.5	271.0
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.04010	-0.15180	-827.1	-1120.1
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.12264	0.00000	3.8	3.8
1175	1970.4	5230.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		263.7	383.0	0.06053	
			Base Case										
1824	1976.0	5235.9	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		308.3	430.0	0.06157	
			Base Case										
1930	1986.7	5246.5	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-519.7	-755.0	-0.11845	
			Base Case										
2854	2011.0	5270.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-261.3	-383.0	-0.06053	
			Base Case										
3496	2018.1	5278.0	L: 135861 MORTIMER	115	135873	SWDN-111	115	1		-84.5	-153.0	-0.03396	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.04624	0.21806	704.5	1144.5
3525	2021.6	5281.4	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-373.3	-540.0	-0.08248	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10185	-0.11845	-519.7	-759.1
3564	2029.5	5289.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-371.4	-540.0	-0.08308	
			C:SER:HCWC/NWES						1717				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.02616	-0.02694	74.0	19.3
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10260	-0.11845	-519.7	-760.1
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00755	-0.02437	-45.4	-94.9
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA			
3569	2030.0	5289.9	L: 125001 ROCK TAV	345	130750	COOPC345	345	2		-1241.7	-1793.0	-0.27159	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1	262				
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.61383	0.17552	842.1	1198.4
3575	2032.5	5292.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-372.5	-540.0	-0.08243	
			C:SER:HC-WC_30&W-F_171						1711				
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.03199	0.00617	-7.0	5.5
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10139	-0.11845	-519.7	-760.4
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00771	-0.02437	-45.4	-94.9
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA			
3599	2042.6	5302.4	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-366.8	-540.0	-0.08479	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.06595	0.21806	704.5	1149.9
3649	2080.7	5340.5	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		323.8	478.0	0.07411	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.11461	-0.11845	-519.7	-766.1
3651	2092.5	5352.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		323.0	478.0	0.07405	
			C:SER:HCWC/NWES						1717				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.00558	-0.02694	74.0	17.6
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.11477	-0.11845	-519.7	-767.5
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00933	-0.02437	-45.4	-96.4
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA			
3656	2096.4	5356.2	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		322.7	478.0	0.07409	
			C:SER:HC-WC_30&W-F_171						1711				
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.04698	0.00617	-7.0	5.9

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			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.11394	-0.11845	-519.7	-768.0		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00956	-0.02437	-45.4	-96.5		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3666	2105.2	5365.0	L: 125001 ROCK TAV	345	130750	COOPC345	345	2		-1223.6	-1793.0	-0.27045	-0.16384	-724.8	-1069.7
			C:SER:CMT34&MTR34					1703							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1		-0.56506	0.17552	842.1	1211.6		
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.05249	-0.14153	-438.7	-736.7		
3667	2106.8	5366.6	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-370.1	-540.0	-0.08064	-0.07041	-320.3	-468.7
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.10185	0.10041	488.7	700.2		
3672	2116.6	5376.4	L: 130757 WATRC345	345	130768	WATRC230	230	1		454.6	600.0	0.06871	-0.07613	265.0	103.8
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.74437	-0.19458	-254.7	-666.5		
3680	2142.1	5401.9	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-368.6	-540.0	-0.07999	-0.07041	-320.3	-471.2
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.10185	-0.09408	-474.3	-675.8		
3681	2146.5	5406.3	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1		-100.2	-173.0	-0.03390	-0.02749	-66.1	-125.1
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		-0.04152	0.15432	823.2	1154.4		
3684	2152.9	5412.7	L: 137200 EDIC	345	137452	N.SCOT77	345	1		1235.9	1724.0	0.22674	0.14910	838.7	1159.7
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		-0.23695	-0.11752	-428.0	-681.0		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		-0.14231	-0.04547	-400.1	-498.0		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		-0.34308	-0.15750	-928.1	-1267.2		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		-0.08889	0.00544	260.5	272.2		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.06737	-0.15180	-827.1	-1153.9		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		-0.19736	0.00000	3.8	3.8		
3686	2154.4	5414.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		297.6	430.0	0.06145			
			Base Case												
3694	2185.4	5445.2	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1053.6	-1703.0	-0.29717	-0.22480	-970.7	-1462.0
			C:130753 FRASR345	345	147831	GILB 345	345	1	271						
			Open 130753 FRASR345	345	147831	GILB 345	345	1		-0.36545	0.19802	226.7	659.4		
3699	2189.8	5449.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		320.2	478.0	0.07204	0.06053	264.2	396.8
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11461	0.10041	488.7	708.5		
3704	2197.9	5457.7	L: 130750 COOPC345	345	147833	MARCY T1	345	1		-967.1	-1345.0	-0.17195	-0.11457	-719.3	-971.1
			C:130750 COOPC345	345	130753	FRASR345	345	1	259						
			Open 130750 COOPC345	345	130753	FRASR345	345	1		0.25527	-0.22480	-970.7	-1464.8		
3711	2213.5	5473.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-365.4	-540.0	-0.07886	-0.07041	-320.3	-476.2
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		-0.05478	0.15432	823.2	1164.8		
3712	2217.0	5476.8	L: 130754 KINTI345	345	149000	ROCH 345	345	1		1131.4	1685.0	0.24971	0.15432	823.2	1165.3
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.43748	0.21806	704.5	1187.9		
3720	2235.2	5495.0	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		318.6	478.0	0.07131	0.06053	264.2	399.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11461	-0.09408	-474.3	-684.6		
3723	2242.4	5502.2	L: 137729 PRINCETW	230	137730	ROTRDM.2	230	1		441.5	560.0	0.05284	0.01350	256.8	287.1
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		-0.24118	-0.11752	-428.0	-691.5		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		-0.02130	-0.04547	-400.1	-502.1		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		-0.06817	-0.15750	-928.1	-1281.3		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.05924	0.00544	260.5	272.7		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.00683	-0.15180	-827.1	-1167.5		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8		
3724	2242.4	5502.2	L: 137729 PRINCETW	230	137730	ROTRDM.2	230	2		441.5	560.0	0.05284	0.01350	256.8	287.1
			C:BUS:N.S._99					1725							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1		-0.24118	-0.11752	-428.0	-691.5		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		-0.02130	-0.04547	-400.1	-502.1		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		-0.06817	-0.15750	-928.1	-1281.3		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.05924	0.00544	260.5	272.7		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.00683	-0.15180	-827.1	-1167.5		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8		

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3749	2323.6	5583.5	L: 131018 LOUNSL115	115	131850 CNYOG115	115	1	21.6	143.0	0.05224	0.03420	-2.0	77.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3750	2325.0	5584.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.7	-1725.0	-0.19238	-0.16234	-1086.0	-1463.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1						
3761	2363.3	5623.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1117.8	-1703.0	-0.24762	-0.22480	-970.7	-1502.0
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1						
3762	2364.0	5623.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-19.5	-143.0	-0.05224	-0.03420	4.1	-76.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3768	2400.1	5660.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-377.7	-540.0	-0.06763	-0.07041	-320.3	-489.3
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3770	2427.4	5687.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	361.3	540.0	0.07363	0.06157	308.3	457.8
			C:130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
3772	2432.9	5692.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	359.4	540.0	0.07424	0.06157	308.3	458.1
			C:SER:HCWC/NWES										
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1						
3774	2438.5	5698.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	354.8	540.0	0.07595	0.06157	308.3	458.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1						
3775	2439.9	5699.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	360.5	540.0	0.07359	0.06157	308.3	458.6
			C:SER:HC-WC_30&W-F_171										
			Open 135277 FALCONER	115	200579 WARREN	115	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1						
3776	2459.3	5719.1	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-78.6	-173.0	-0.03839	-0.02749	-43.4	-111.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1						
3777	2465.5	5725.3	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-75.8	-153.0	-0.03133	-0.02180	-45.0	-98.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1						
3778	2500.7	5760.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1204.1	-1725.0	-0.20832	-0.16234	-1086.0	-1491.9
			C:137451 LEEDS 3	345	137455 ATHENS	345	1						
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1						
3780	2527.6	5787.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1087.7	-1703.0	-0.24345	-0.22480	-970.7	-1538.9
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1						
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1						
3781	2533.5	5793.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	358.1	540.0	0.07179	0.06157	308.3	464.3
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
3782	2540.0	5799.8	L: Interface	73	MarcySouthS			1690.0	2552.0	0.33937			
			Base Case										
3784	2577.1	5836.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	356.6	540.0	0.07115	0.06157	308.3	467.0
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
3785	2577.2	5837.0	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	350.5	540.0	0.07351	0.06145	297.6	456.0

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				C:130757 WATRC345	345	135249	ARMENMTN	345	1	281									
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1										
3786	2581.5	5841.3	L:	95976 STONYCRK	230	131122	WTHRS230	230	1		348.7	540.0	0.07412		0.06145	297.6	456.2		
				C:SER:HCWC/NWES						1717									
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1							74.0	4.4		
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA								
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1							-0.10260	-0.11845	-519.7	-825.5
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA								
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1							0.00755	-0.02437	-45.4	-108.3
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA								
3787	2583.8	5843.6	L:	95976 STONYCRK	230	131122	WTHRS230	230	1		344.1	540.0	0.07583		0.06145	297.6	456.4		
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1							0.06595	0.21806	704.5	1267.9
3788	2589.8	5849.7	L:	95976 STONYCRK	230	131122	WTHRS230	230	1		349.7	540.0	0.07347		0.06145	297.6	456.8		
				C:SER:HC-WC_30&W-F_171						1711									
				Open 135277 FALCONER	115	200579	WARREN	115	1							0.03199	0.00617	-7.0	8.9
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA								
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1							-0.10139	-0.11845	-519.7	-826.4
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA								
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1							0.00771	-0.02437	-45.4	-108.5
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA								
3789	2616.4	5876.2	L:	130764 MEYER230	230	134750	DAIRY230	230	1		-352.1	-540.0	-0.07181		-0.07041	-320.3	-504.6		
				C:131128 LAPEER	345	136153	LAFAYTTE	345	1	462									
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1							0.04276	-0.03265	-743.2	-828.7
3790	2622.0	5881.8	L:	146758 CHESTER	138	146771	SHOEM138	138	1		-195.3	-317.0	-0.04640		-0.02111	-116.9	-172.3		
				C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	70									
				Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1							0.17873	-0.14153	-438.7	-809.8
3791	2634.7	5894.6	L:	137451 LEEDS 3	345	147831	GILB 345	345	1		-1332.9	-1912.0	-0.21978		-0.15256	-982.8	-1384.7		
				C:BUS:N.S._77						1724									
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1							0.20828	-0.16325	-664.8	-1094.9
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1							0.17586	0.00471	245.1	257.5
				Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01		NA								
				Open 137200 EDIC	345	137452	N.SCOT77	345	1							-0.22922	0.14910	838.7	1231.5
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1							-0.13646	-0.00090	169.3	166.9
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1							0.00000	-0.15159	-828.1	-1227.5
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2							0.15776	0.00000	-250.0	-250.0
3792	2637.1	5896.9	L:	130757 WATRC345	345	135249	ARMENMTN	345	1		-614.4	-927.0	-0.11853		-0.11845	-519.7	-832.0		
				C:HQ-NY-765-New						1887									
				Open 147827 MARCY765	765	147828	MASS 765	765	1		NA								
				Open 147828 MASS 765	765	180819	CHA-NY	765	1		NA								
				Open 147827 MARCY765	765	147833	MARCY T1	345	1							-0.01330	0.00301	753.9	761.8
				Open 147827 MARCY765	765	147833	MARCY T1	345	2							-0.01330	0.00262	656.5	663.4
				Open 156 MCY765SW	765	147827	MARCY765	765	1		NA								
				Open 147838 MASS230B	230	147839	MOSES E	230	1							0.00000	-0.00282	-22.3	-29.7
				Open 147828 MASS 765	765	147838	MASS230B	230	1		NA								
				Open 147837 MASS230A	230	147839	MOSES E	230	1							0.06171	0.00000	-157.9	-157.9
				Open 147828 MASS 765	765	147837	MASS230A	230	1		NA								
				Open 158 MS765SW2	765	147828	MASS 765	765	1		NA								
				Open 157 MS765SW1	765	147828	MASS 765	765	1		NA								
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch									
				Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch									
				Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch									
				Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch									
3793	2652.6	5912.4	L:	95593 CHERYFLT	345	135249	ARMENMTN	345	1		488.7	755.0	0.10041						
				Base Case															
3794	2663.3	5923.1	*L:	130764 MEYER230	230	134750	DAIRY230	230	1		-339.5	-540.0	-0.07527		-0.07041	-320.3	-507.9		
				C:135272-135289						1890									
				Open 135289 NILE115	115	147949	WELLSVLE	115	1							-0.30709	0.01582	62.3	104.5
				Open 135289 NILE115	115	135360	NILEXFR	34.5	1							0.00496	-0.00084	4.5	2.2
				Open 135272 DUGN-157	115	135289	NILE115	115	1							-0.04921	0.00000	1.2	1.2
3796	2664.5	5924.3	L:	131122 WTHRS230	230	134750	DAIRY230	230	1		353.4	540.0	0.07002		0.06157	308.3	472.4		
				C:130754 KINTI345	345	149000	ROCH 345	345	1	273									
				Open 130754 KINTI345	345	149000	ROCH 345	345	1							0.05478	0.15432	823.2	1234.4
3797	2680.1	5939.9	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1		-1234.3	-1725.0	-0.18307		-0.15448	-1051.9	-1465.9		
				C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	63									

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			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.22182	-0.12889	-822.7	-1168.2
3800	2687.4	5947.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	347.4	540.0	0.07168	0.06145	297.6	462.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						35
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10185	0.10041	488.7	758.5
3801	2705.1	5964.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	304.8	478.0	0.06403	0.06053	264.2	428.0
			C:130755 OAKDL345	345	131128 LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.06156	-0.05676	-658.8	-812.4
3804	2714.4	5974.2	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1118.0	-1724.0	-0.22324	-0.15180	-827.1	-1239.2
			C:137452 N.SCOT77	345	137453 N.SCOT99	345	1						1087
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.43762	-0.16325	-664.8	-1107.9
3805	2715.5	5975.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1047.9	-1703.0	-0.24125	-0.22480	-970.7	-1581.2
			C:BUS:N.S._77										1724
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.04149	-0.16325	-664.8	-1108.1
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02355	0.00471	245.1	257.9
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.06564	0.14910	838.7	1243.6
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.00083	-0.00090	169.3	166.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.00000	-0.15159	-828.1	-1239.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2			0.00064	0.00000	-250.0	-250.0
3811	2732.4	5992.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	345.9	540.0	0.07103	0.06145	297.6	465.5
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						1458
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10185	-0.09408	-474.3	-731.3
3812	2733.5	5993.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	83.4	173.0	0.03277	0.02703	83.5	157.4
			C:130754 KINTI345	345	147834 NIAG 345	345	1						272
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04083	-0.14075	3.4	-381.3
3813	2735.7	5995.5	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	704.5	1301.0	0.21806			
			Base Case										
3820	2760.0	6019.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	329.9	478.0	0.05367	0.06053	264.2	431.3
			C:BUS:WATERCURE_345										1742
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.04479	-0.11845	-519.7	-846.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.15980	-0.07613	265.0	54.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.03638	0.00000	-0.0	-0.0
3821	2762.3	6022.2	L: 137200 EDIC	345	147833 MARCY T1	345	1	714.9	1793.0	0.39029	0.27234	108.5	860.8
			C:136156 VOLNEY	345	147833 MARCY T1	345	1						811
			Open 136156 VOLNEY	345	147833 MARCY T1	345	1			0.86552	0.13627	700.6	1077.0
3824	2767.7	6027.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	292.1	478.0	0.06718	0.06053	264.2	431.8
			C:130774 BATH 115	115	131347 HOWARD	115	1						299
			Open 130774 BATH 115	115	131347 HOWARD	115	1			-0.28676	-0.02317	-97.1	-161.2
3826	2783.2	6043.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	304.6	478.0	0.06231	0.06053	264.2	432.7
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1						462
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.05429	-0.03265	-743.2	-834.1
3827	2790.2	6050.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1043.8	-1703.0	-0.23625	-0.22480	-970.7	-1598.0
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						63
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.08883	-0.12889	-822.7	-1182.4
3828	2791.7	6051.5	L: 137200 EDIC	345	147833 MARCY T1	345	1	745.4	1793.0	0.37527	0.27234	108.5	868.8
			C:SIN:160										1780
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			0.69034	0.14910	838.7	1255.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.59313	0.00000	97.3	97.3
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00280	-0.00015	43.6	43.2
3829	2791.7	6051.6	L: 137200 EDIC	345	147833 MARCY T1	345	1	745.4	1793.0	0.37527	0.27234	108.5	868.8
			C:SIN:150										1779
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			0.69034	0.14910	838.7	1255.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.59335	0.00000	97.3	97.3
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00187	-0.00009	49.4	49.2
3832	2811.4	6071.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1196.6	-1725.0	-0.18795	-0.16234	-1086.0	-1542.3
			C:130750 COOPC345	345	130753 FRASR345	345	1						259
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.11396	-0.22480	-970.7	-1602.7
3834	2815.8	6075.7	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-77.6	-173.0	-0.03390	-0.02749	-43.4	-120.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04152	0.15432	823.2	1257.7
3835	2822.4	6082.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	342.7	540.0	0.06990	0.06145	297.6	471.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05478	0.15432	823.2	1258.7
3836	2822.6	6082.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	289.3	478.0	0.06684	0.06053	264.2	435.1
			C:131342 BENET115	115	131347 HOWARD	115	1						472

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			Open 131342 BENET115	115	131347 HOWARD	115	1		0.28676	0.02200	87.5	149.6		
3837	2825.0	6084.9	L: 130836 N.WAV115	115	131018 LOUNSI115	115	1	25.4	173.0	0.05224	0.03420	1.8	98.4	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09271	-0.19458	-254.7	-804.4
3838	2827.9	6087.7	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-268.4	-478.0	-0.07411	-0.06053	-208.9	-380.1	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11461	-0.11845	-519.7	-854.6
3842	2840.3	6100.1	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-267.7	-478.0	-0.07405	-0.06053	-208.9	-380.8	
			C:SER:HCWC/NWES					1717						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00558	-0.02694	74.0	-2.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11477	-0.11845	-519.7	-856.1
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00933	-0.02437	-45.4	-114.6
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3843	2841.1	6100.9	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-590.5	-927.0	-0.11845	-0.11845	-519.7	-856.2	
			C:GEN:9 MI PT2					1671						
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1126.9	MW	dispatch					
3844	2843.8	6103.6	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-267.3	-478.0	-0.07409	-0.06053	-208.9	-381.0	
			C:SER:HC-WC_30&W-F_171					1711						
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04698	0.00617	-7.0	10.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11394	-0.11845	-519.7	-856.5
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00956	-0.02437	-45.4	-114.7
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3845	2846.0	6105.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1194.1	-1725.0	-0.18653	-0.16234	-1086.0	-1548.0	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61						
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.20766	0.11650	521.0	852.5
3849	2857.7	6117.5	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1132.1	-1724.0	-0.20711	-0.15159	-828.1	-1261.3	
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.35787	-0.15514	-849.6	-1292.9
3850	2859.5	6119.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1033.7	-1703.0	-0.23405	-0.22480	-970.7	-1613.5	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.05592	-0.16538	-1126.7	-1599.6
3851	2861.1	6121.0	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-588.1	-927.0	-0.11845	-0.11845	-519.7	-858.6	
			C:SIN:250					1787						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
3853	2868.3	6128.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4	-1725.0	-0.16684	-0.16234	-1086.0	-1551.6	
			C:SIN:430					1792						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.12774	0.03529	1256.5	1357.7
3854	2868.3	6128.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4	-1725.0	-0.16684	-0.16234	-1086.0	-1551.6	
			C:125002 ROSETON	345	126281 FISHKILL	345	1	71						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.12774	0.03529	1256.5	1357.7
3855	2869.5	6129.3	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-587.1	-927.0	-0.11845	-0.11845	-519.7	-859.6	
			C:GEN:SEAB&OMS					1685						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
3856	2869.5	6129.3	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-587.1	-927.0	-0.11845	-0.11845	-519.7	-859.6	
			C:GEN:SEABROOK					1683						
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch					
3858	2873.4	6133.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1031.1	-1703.0	-0.23383	-0.22480	-970.7	-1616.7	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.05560	-0.16234	-1086.0	-1552.4
3859	2873.5	6133.3	L: Interface 73 MarcySouthS					1941.8	3048.0	0.38497	0.33937	1690.0	2665.2	
			C:BUS:N.S._99					1725						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.09778	-0.11752	-428.0	-765.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.10744	-0.04547	-400.1	-530.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.16109	-0.15750	-928.1	-1380.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.01545	0.00544	260.5	276.1
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.02594	-0.15180	-827.1	-1263.3
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.00583	0.00000	3.8	3.8
3860	2875.6	6135.4	L: 95646 DEANWIND	230	130772 SHRED230	230	1	143.0	440.0	0.10328	0.05392	78.4	233.5	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274						

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25366	-0.19458	-254.7	-814.2
3861	2892.1	6151.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1028.4	-1703.0	-0.23326		-0.22480	-970.7	-1620.9
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1				0.05480	-0.15448	-1051.9	-1498.6
3864	2899.2	6159.1	L: Interface	10	F-To-G			3207.2	4643.0	0.49525				
			Base Case											
3865	2905.0	6164.8	*L: 130750 COOPC345	345	130753 FRASR345	345	1	-980.3	-1703.0	-0.24878		-0.22480	-970.7	-1623.8
			C:137200 EDIC	345	147833 MARCY T1	345	1	1029						
			Open 137200 EDIC	345	147833 MARCY T1	345	1				-0.08806	0.27234	108.5	899.7
3866	2905.6	6165.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1124.9	-1724.0	-0.20619		-0.15180	-827.1	-1268.2
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.35053	-0.15514	-849.6	-1300.3
3868	2909.3	6169.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-582.4	-927.0	-0.11845		-0.11845	-519.7	-864.3
			C:GEN:MILLST 3					1682						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
3869	2909.3	6169.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-582.4	-927.0	-0.11845		-0.11845	-519.7	-864.3
			C:GEN:MLS3&OMS					1684						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
3870	2912.6	6172.4	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-281.9	-430.0	-0.05083				
			Base Case											
3871	2918.4	6178.2	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-982.8	-1428.0	-0.15256				
			Base Case											
3872	2920.7	6180.5	L: 149000 ROCH 345	345	149001 PANNELL3	345	2	643.3	1685.0	0.35666		0.19884	358.6	939.3
			C:149000 ROCH 345	345	149001 PANNELL3	345	1	1390						
			Open 149000 ROCH 345	345	149001 PANNELL3	345	1				0.79631	0.19819	357.5	936.4
3874	2923.8	6183.6	L: 149000 ROCH 345	345	149001 PANNELL3	345	1	642.9	1685.0	0.35642		0.19819	357.5	937.0
			C:149000 ROCH 345	345	149001 PANNELL3	345	2	1391						
			Open 149000 ROCH 345	345	149001 PANNELL3	345	2				0.79577	0.19884	358.6	940.0
3882	2940.5	6200.4	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-566.8	-927.0	-0.12251		-0.11845	-519.7	-868.0
			C:130755 OAKDL345	345	131128 LAPEER	345	1	277						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.07147	-0.05676	-658.8	-825.7
3885	2944.1	6203.9	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-135.9	-440.0	-0.10328		-0.05392	-71.3	-230.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.25366	-0.19458	-254.7	-827.6
3888	2947.0	6206.8	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	135.6	440.0	0.10328		0.05392	71.0	229.9
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.25366	-0.19458	-254.7	-828.1
3889	2948.2	6208.0	L: 130787 CODNT115	115	130830 MONTR115	115	1	2.3	-144.0	-0.04963		-0.03374	23.1	-76.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08164	-0.19458	-254.7	-828.3
3890	2949.0	6208.8	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	226.2	336.0	0.03722		0.00988	106.9	136.0
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	264						
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.45165	0.06053	264.2	442.8
3891	2949.5	6209.3	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	226.2	336.0	0.03722		0.00988	106.9	136.0
			C:SER:MEYER_HILLSD_68					1714						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1				0.45165	0.06053	263.7	442.3
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1				0.41293	0.00000	0.5	0.5
3895	2952.1	6211.9	L: 130753 FRASR345	345	147831 GILB 345	345	1	650.0	1524.0	0.29606		0.19802	226.7	811.2
			C:130750 COOPC345	345	130753 FRASR345	345	1	259						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.43611	-0.22480	-970.7	-1634.4
3897	2953.0	6212.8	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-554.6	-927.0	-0.12612		-0.11845	-519.7	-869.5
			C:130764 MEYER230	230	134750 DAIRY230	230	1	289						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				0.10893	-0.07041	-320.3	-528.3
3898	2955.2	6215.0	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	226.0	336.0	0.03722		0.00988	106.9	136.1
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	284						
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1				0.45165	0.06053	263.7	442.6
3900	2958.4	6218.2	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-264.9	-478.0	-0.07204		-0.06053	-208.9	-388.0
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.11461	0.10041	488.7	785.7
3904	2962.0	6221.8	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1117.6	-1724.0	-0.20473		-0.15159	-828.1	-1277.1
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084						
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.35002	-0.15180	-827.1	-1276.8
3907	2965.4	6225.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	365.7	540.0	0.05879		0.06157	308.3	490.9
			C:BUS:WATERCURE_345					1742						

VolneyEast

			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05113	-0.11845	-519.7	-870.9		
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11608	-0.07613	265.0	39.2		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04425	0.00000	-0.0	-0.0		
3913	2977.7	6237.5	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-568.0	-927.0	-0.12057	-0.11845	-519.7	-872.4	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	462							
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					0.06498	-0.03265	-743.2	-840.5
3916	2978.2	6238.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1115.0	-1724.0	-0.20450	-0.15180	-827.1	-1279.2	
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1	1082							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1					0.34761	-0.15159	-828.1	-1279.6
3925	2983.9	6243.7	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1		-474.3	-755.0	-0.09408				
			Base Case												
3926	2985.0	6244.8	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1		224.9	336.0	0.03722	0.00988	106.9	136.4	
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	288							
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1					-0.45165	-0.06053	-261.3	-442.0



Moses South

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, AUG 12 2011 13:19  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 7620  
 First violation - 166.5 MW.

Study transfer. From D\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 7620 violations

Interface-1 Interface 4 MOSES SOUTH- Init.Flow= 2091.66 TDF= 0.9973

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment
			C: Contingency description	___Ncon	Flow Rating		LODF	Init Final	
1	166.5	2257.7	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1	230 5	1318.0 MW	0.25000	0.25000	216.1 257.7	
2	166.5	2257.7	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR Remove unit 1 from bus 102869 SBRK G1	230 5	1318.0 MW	0.25000	0.25000	216.1 257.7	
3	166.5	2257.7	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR Remove unit 1 from bus 102869 SBRK G1	230 6	1318.0 MW	0.25000	0.25000	216.1 257.7	
4	166.5	2257.7	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1	230 6	1318.0 MW	0.25000	0.25000	216.1 257.7	
5	166.5	2257.7	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3	230 5	1276.0 MW	0.25000	0.25000	216.1 257.7	
6	166.5	2257.7	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:MLS3&OMS Open 100508 SANDB115 115 100509 SB RCTOR Remove unit 3 from bus 103563 MILL#3	230 5	1276.0 MW	0.25000	0.25000	216.1 257.7	
7	166.6	2257.8	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3	230 6	1276.0 MW	0.25000	0.25000	216.1 257.7	
8	166.6	2257.8	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:MLS3&OMS Open 100508 SANDB115 115 100509 SB RCTOR Remove unit 3 from bus 103563 MILL#3	230 6	1276.0 MW	0.25000	0.25000	216.1 257.7	
9	166.7	2257.9	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:9 MI PT2 Remove unit 2 from bus 136700 9M PT 2G	230 5	1126.9 MW	0.25000	0.25000	216.1 257.7	
10	166.7	2257.9	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1	115 7	1318.0 MW	0.25000	0.25000	216.0 257.7	
11	166.7	2257.9	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR Remove unit 1 from bus 102869 SBRK G1	115 7	1318.0 MW	0.25000	0.25000	216.0 257.7	
12	166.7	2257.9	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SALEM Remove unit 1 from bus 36 SALEM-G1	230 5	1107.4 MW	0.25000	0.25000	216.1 257.7	
13	166.7	2257.9	L: 147767 MOS21-24 13.8 147840 MOSES W	230 6	1318.0 MW	0.25000	0.25000	216.1 257.7	

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			C:GEN:9 MI PT2		1671							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch						
14	166.7	2257.9	L: 147769 MOS25-28 13.8 147849 MOS 115	115	7	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:MILLST 3		1682							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
15	166.7	2257.9	L: 147769 MOS25-28 13.8 147849 MOS 115	115	7	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:MLS3&OMS		1684							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
16	166.7	2257.9	L: 147767 MOS21-24 13.8 147840 MOSES W	230	6	216.3	258.0	0.25000	0.25000	216.1	257.7	
			C:GEN:SALEM		1677							
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch						
17	166.7	2257.9	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:SEABROOK		1683							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
18	166.7	2257.9	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:SEAB&OMS		1685							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch						
19	166.7	2257.9	L: 147764 MOS17-20 13.8 147839 MOSES E	230	5	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:PEACHBTM		1678							
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch						
20	166.7	2257.9	L: 147764 MOS17-20 13.8 147839 MOSES E	230	5	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:IND PT 3		1665							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
21	166.8	2258.0	L: 147764 MOS17-20 13.8 147839 MOSES E	230	5	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:IND PT 2		1664							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch						
22	166.8	2258.0	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:MLS3&OMS		1684							
			Open 100508 SANDB115 115 100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
23	166.8	2258.0	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:MILLST 3		1682							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch						
24	166.8	2258.0	L: 147767 MOS21-24 13.8 147840 MOSES W	230	6	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:PEACHBTM		1678							
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch						
25	166.8	2258.0	L: 147767 MOS21-24 13.8 147840 MOSES W	230	6	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:IND PT 3		1665							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
26	166.8	2258.0	L: 147767 MOS21-24 13.8 147840 MOSES W	230	6	216.3	258.0	0.25000	0.25000	216.1	257.8	
			C:GEN:IND PT 2		1664							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch						
27	166.8	2258.0	*L: 147764 MOS17-20 13.8 147839 MOSES E	230	5	216.3	258.0	0.24995	0.25000	216.1	257.8	
			C:GEN:IND PT 3-New		1885							
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1			0.00000	-0.10564	506.2	488.5	
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2			-0.00024	0.21016	-1009.3	-974.3	
29	166.8	2258.0	*L: 147767 MOS21-24 13.8 147840 MOSES W	230	6	216.3	258.0	0.24995	0.25000	216.1	257.8	
			C:GEN:IND PT 3-New		1885							
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1			0.00000	-0.10564	506.2	488.5	
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2			-0.00024	0.21016	-1009.3	-974.3	
30	166.8	2258.1	L: 147769 MOS25-28 13.8 147849 MOS 115	115	7	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:9 MI PT2		1671							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch						
32	166.9	2258.1	L: 147769 MOS25-28 13.8 147849 MOS 115	115	7	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:SALEM		1677							
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch						
33	166.9	2258.1	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	
			C:GEN:9 MI PT2		1671							
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch						
35	166.9	2258.1	L: 147769 MOS25-28 13.8 147849 MOS 115	115	7	216.3	258.0	0.25000	0.25000	216.0	257.8	
			C:GEN:PEACHBTM		1678							
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch						
36	166.9	2258.1	L: 147773 MOS29-32 13.8 147849 MOS 115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7	

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			C:GEN:SALEM				1677							
			Remove unit 1 from bus	36 SALEM-G1	22.0	1107.4 MW	dispatch							
38	166.9	2258.1	L: 147769 MOS25-28	13.8 147849 MOS 115	115	7	216.3 258.0 0.25000		0.25000	216.0	257.8			
			C:GEN:IND PT 3				1665							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
39	166.9	2258.2	L: 147769 MOS25-28	13.8 147849 MOS 115	115	7	216.3 258.0 0.25000		0.25000	216.0	257.8			
			C:GEN:IND PT 2				1664							
			Remove unit 2 from bus	126651 IND PT 2	22.0	1021.8 MW	dispatch							
42	167.0	2258.2	L: 147773 MOS29-32	13.8 147849 MOS 115	115	8	216.3 258.0 0.25000		0.25000	216.0	257.8			
			C:GEN:PEACHBTM				1678							
			Remove unit 1 from bus	34 PCHBTM 2	22.0	1051.0 MW	dispatch							
43	167.0	2258.2	L: 147773 MOS29-32	13.8 147849 MOS 115	115	8	216.3 258.0 0.25000		0.25000	216.0	257.8			
			C:GEN:IND PT 3				1665							
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
44	167.0	2258.2	*L: 147769 MOS25-28	13.8 147849 MOS 115	115	7	216.3 258.0 0.24995		0.25000	216.0	257.8			
			C:GEN:IND PT 3-New				1885							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345	1		0.00000	-0.10564	506.2	488.5			
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345	2		-0.00024	0.21016	-1009.3	-974.2			
45	167.0	2258.2	L: 147773 MOS29-32	13.8 147849 MOS 115	115	8	216.2 258.0 0.25000		0.25000	216.0	257.8			
			C:GEN:IND PT 2				1664							
			Remove unit 2 from bus	126651 IND PT 2	22.0	1021.8 MW	dispatch							
47	167.0	2258.3	*L: 147773 MOS29-32	13.8 147849 MOS 115	115	8	216.2 258.0 0.24995		0.25000	216.0	257.8			
			C:GEN:IND PT 3-New				1885							
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345	1		0.00000	-0.10564	506.2	488.5			
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345	2		-0.00024	0.21016	-1009.3	-974.2			
426	167.7	2258.9	L: 147764 MOS17-20	13.8 147839 MOSES E	230	5	216.1 258.0 0.25000							
			Base Case											
2010	167.8	2259.0	L: 147767 MOS21-24	13.8 147840 MOSES W	230	6	216.1 258.0 0.25000							
			Base Case											
5556	167.9	2259.1	L: 147769 MOS25-28	13.8 147849 MOS 115	115	7	216.0 258.0 0.25000							
			Base Case											
6666	168.0	2259.2	L: 147773 MOS29-32	13.8 147849 MOS 115	115	8	216.0 258.0 0.25000							
			Base Case											
7473	636.1	2726.0	L: 137451 LEEDS 3	345 137453 N.SCOT99	345	2	-1517.4 -1724.0 -0.32486		-0.16643	-826.5	-932.4			
			C:BUS:N.S._77				1725							
			Open 137452 N.SCOT77	345 137453 N.SCOT99	345	1		0.57690	-0.16488	-664.2	-769.1			
			Open 137452 N.SCOT77	345 137516 N.SCOT1	115	1		0.43450	0.00618	245.1	249.1			
			Open 120601 STARS-00601	13.8 137452 N.SCOT77	345	01	NA							
			Open 137200 EDIC	345 137452 N.SCOT77	345	1		-0.37047	0.17942	837.8	952.0			
			Open 137450 ALPS345	345 137452 N.SCOT77	345	1		-0.29758	-0.00159	169.4	168.4			
			Open 137451 LEEDS 3	345 137452 N.SCOT77	345	1		0.00000	-0.16632	-827.5	-933.3			
			Open 137451 LEEDS 3	345 137452 N.SCOT77	345	2		0.21348	0.00000	-250.0	-250.0			
7474	666.3	2756.2	L: 147827 MARCY765	765 147833 MARCY T1	345	1	1322.3 1654.0 0.49787		0.28403	753.9	943.1		NYP&A indicated that AT-1 will trip for loss of AT-2 provided that loading on AT-1 exceeds its STE rating and overload relay protection on AT-1 is in-service	
			C:147827 MARCY765	765 147833 MARCY T1	345	2	1316							
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		0.86577	0.24699	656.5	821.1			
7475	1025.3	3114.1	L: 136759 BRNS FLS	115 136807 TAYLORVL	115	2	85.8 134.0 0.04705		0.02888	37.5	67.1			
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765 147833 MARCY T1	345	1		0.03422	0.28403	753.9	1045.1			
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		0.03422	0.24699	656.5	909.7			
7476	1039.4	3128.2	L: 147840 MOSES W	230 999840 MOSES W	345	2	760.9 1152.0 0.37629		0.20561	307.6	521.3		Probably invalid because this will result in rejection of HQ import at Chateauguay	
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765 147833 MARCY T1	345	1		0.32141	0.28403	753.9	1049.1			
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		0.32141	0.24699	656.5	913.2			
7477	1039.4	3128.2	L: 147840 MOSES W	230 999840 MOSES W	345	1	760.9 1152.0 0.37629		0.20561	307.6	521.3		Probably invalid because this will result in rejection of HQ import at Chateauguay	
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765 147833 MARCY T1	345	1		0.32141	0.28403	753.9	1049.1			
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		0.32141	0.24699	656.5	913.2			
7478	1046.5	3135.3	L: 136759 BRNS FLS	115 136807 TAYLORVL	115	1	85.8 135.0 0.04705		0.02888	37.5	67.7			
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765 147833 MARCY T1	345	1		0.03422	0.28403	753.9	1051.1			
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		0.03422	0.24699	656.5	915.0			
7479	1161.6	3250.1	L: 136759 BRNS FLS	115 136771 FLAT RCK	115	1	-80.5 -135.0 -0.04694		-0.02881	-32.3	-65.8			
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765 147833 MARCY T1	345	1		-0.03414	0.28403	753.9	1083.8			
			Open 147827 MARCY765	765 147833 MARCY T1	345	2		-0.03414	0.24699	656.5	943.4			

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7480	1197.2	3285.6	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-78.5	-135.0	-0.04716	-0.02894	-30.2	-64.8	
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.03430	0.28403	753.9	1093.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.03430	0.24699	656.5	952.2	
7481	1345.6	3433.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-974.4	-1207.0	-0.17286				
			Base Case											
7482	1363.9	3451.9	L: 136764 COLTON	115	136771 FLAT RCK	115	1	78.0	142.0	0.04694	0.02881	29.8	69.1	
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.03414	0.28403	753.9	1141.3	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.03414	0.24699	656.5	993.4	
7483	1432.9	3520.7	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.5	-402.0	-0.03874	-0.01138	-236.5	-252.8	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			0.13877	-0.14555	-427.2	-635.8	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.01297	0.00558	-400.8	-392.8	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.03885	-0.19834	-927.1	-1211.3	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.05287	0.00700	260.5	270.5	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			-0.00510	-0.16643	-826.5	-1065.0	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.01886	0.00000	3.8	3.8	
7484	1435.8	3523.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1427.7	-1725.0	-0.20705	-0.15812	-1085.6	-1312.6	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.30372	-0.16109	-1126.4	-1357.7	
7485	1506.0	3593.5	L: 147840 MOSES W	230	999840 MOSES W	345	1	574.1	1152.0	0.38376	0.20561	307.6	617.2	NYPA indicated 345/230 kV transformers will be sized to overcome this limitation; loss of one overloads the other
			C:147840 MOSES W	230	999840 MOSES W	345	2	1336						
			Open 147840 MOSES W	230	999840 MOSES W	345	2			0.86642	0.20561	307.6	617.2	
7486	1506.0	3593.5	L: 147840 MOSES W	230	999840 MOSES W	345	2	574.1	1152.0	0.38376	0.20561	307.6	617.2	
			C:147840 MOSES W	230	999840 MOSES W	345	1	1335						
			Open 147840 MOSES W	230	999840 MOSES W	345	1			0.86642	0.20561	307.6	617.2	
7487	1551.8	3639.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1085.6	-1331.0	-0.15812				
			Base Case											
7488	1554.4	3641.8	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	61.0	134.0	0.04697	0.02888	37.5	82.4	
			C:136759 BRNS FLS	115	136807 TAYLORVL	115	1	967						
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1			0.62661	0.02888	37.5	82.4	
7489	1575.7	3663.0	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	61.0	135.0	0.04697	0.02888	37.5	83.0	
			C:136759 BRNS FLS	115	136807 TAYLORVL	115	2	968						
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.62661	0.02888	37.5	83.0	
7490	1608.5	3695.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1398.6	-1725.0	-0.20291	-0.15812	-1085.6	-1340.0	
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.29765	-0.15047	-1051.5	-1293.6	
7491	1647.1	3734.3	L: 136764 COLTON	115	136775 HIGLEY	115	1	81.3	159.0	0.04716	0.02894	33.0	80.6	
			C:SPS:MARCY_AT1_AT2				1707							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.03430	0.28403	753.9	1221.7	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.03430	0.24699	656.5	1063.3	
7492	1765.7	3852.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.1	-1725.0	-0.19704	-0.15047	-1051.5	-1317.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.28903	-0.16109	-1126.4	-1410.8	
7493	1785.0	3871.8	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-52.3	-135.0	-0.04634	-0.02881	-32.3	-83.7	
			C:136764 COLTON	115	136775 HIGLEY	115	1	977						
			Open 136764 COLTON	115	136775 HIGLEY	115	1			-0.60579	0.02894	33.0	84.6	
7494	1790.3	3877.1	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.2	560.0	0.06636	0.01858	256.8	290.0	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.14555	-427.2	-687.8	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	0.00558	-400.8	-390.8	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.19834	-927.1	-1282.2	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00700	260.5	273.1	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.16643	-826.5	-1124.4	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8	
7495	1790.3	3877.1	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.2	560.0	0.06636	0.01858	256.8	290.0	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			-0.24118	-0.14555	-427.2	-687.8	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.02130	0.00558	-400.8	-390.8	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.06817	-0.19834	-927.1	-1282.2	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.05924	0.00700	260.5	273.1	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.00683	-0.16643	-826.5	-1124.4	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.03060	0.00000	3.8	3.8	
7496	1808.5	3895.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1274.1	-1703.0	-0.23717	-0.17286	-974.4	-1287.0	

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			C:130750 COOPC345	345	147833 MARCY T1	345	1	263					
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.41671	-0.15432	-719.1	-998.2	
7497	1817.3	3904.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1234.6	1724.0	0.26932	0.17942	837.8	1163.9
			C:BUS:N.S._99										1726
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.23695	-0.14555	-427.2	-691.7	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.14231	0.00558	-400.8	-390.6	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.34308	-0.19834	-927.1	-1287.5	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.08889	0.00700	260.5	273.2	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.06737	-0.16643	-826.5	-1128.9	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.19736	0.00000	3.8	3.8	
7498	1821.4	3908.1	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-50.6	-135.0	-0.04634	-0.02881	-32.3	-84.8
			C:136759 BRNS FLS	115	136775 HIGLEY	115	1	965					
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1		0.60579	-0.02894	-30.2	-82.9	
7499	1835.6	3922.3	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-49.8	-135.0	-0.04643	-0.02894	-30.2	-83.3
			C:136759 BRNS FLS	115	136771 FLAT RCK	115	1	964					
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1		0.60688	-0.02881	-32.3	-85.2	
7500	1845.0	3931.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.5	-1725.0	-0.19592	-0.15047	-1051.5	-1329.2
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		0.28739	-0.15812	-1085.6	-1377.4	
7501	1846.3	3932.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1297.9	1793.0	0.26818	0.16988	843.9	1157.5
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	69					
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2		-0.62491	-0.15730	-726.5	-1016.9	
7502	1857.2	3943.8	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.5	-1331.0	-0.15047			
			Base Case										
7503	1868.3	3954.8	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-48.3	-135.0	-0.04643	-0.02894	-30.2	-84.2
			C:136764 COLTON	115	136771 FLAT RCK	115	1	976					
			Open 136764 COLTON	115	136771 FLAT RCK	115	1		-0.60688	0.02881	29.8	83.6	
7504	1872.3	3958.8	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	55.4	135.0	0.04251	0.02888	37.5	91.6
			C:Taylorville 2					1832					
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2		0.66264	0.02888	37.5	91.6	
			Open 136766 DEFERIET	115	136807 TAYLORVL	115	1		0.14025	-0.01202	-10.1	-32.6	
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1		0.23035	-0.01655	-52.6	-83.6	
			Open 136786 MOSH-SUN	115	136807 TAYLORVL	115	1		-0.30433	0.00000	-21.7	-21.7	
7505	1884.3	3970.8	L: 136750 ALCOA-NM	115	136767 DENNISON	115	1	93.0	222.0	0.06844	0.04377	27.5	110.0
			C:SPS:MARCY_AT1_AT2					1707					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.04645	0.28403	753.9	1289.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.04645	0.24699	656.5	1121.9	
7506	1900.4	3986.9	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.9	-1345.0	-0.19844	-0.15432	-719.1	-1012.4
			C:130750 COOPC345	345	130753 FRASR345	345	1	259					
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.25527	-0.17286	-974.4	-1302.9	
7507	1908.5	3994.9	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	44.2	134.0	0.04705	0.02888	37.5	92.6
			C:HQ-NY-765-New					1888					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.03422	0.28403	753.9	1295.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.03422	0.24699	656.5	1127.9	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-529.1	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.03041	0.00000	-157.9	-157.9	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
7508	1929.7	4016.1	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	44.2	135.0	0.04705	0.02888	37.5	93.2
			C:HQ-NY-765-New					1888					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.03422	0.28403	753.9	1302.0	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.03422	0.24699	656.5	1133.1	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-534.7	

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				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.03041	0.00000	-157.9	-157.9		
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
7509	1990.0	4076.2	L:	136764 COLTON	115	136771 FLAT RCK	115	1		49.8	142.0	0.04634	0.02881	29.8	87.1
			C:	136764 COLTON	115	136775 HIGLEY	115	1	977						
				Open 136764 COLTON	115	136775 HIGLEY	115	1		0.60579	0.02894	33.0	90.5		
7510	1991.2	4077.4	L:	136759 BRNS FLS	115	136807 TAYLORVL	115	2		49.3	134.0	0.04254	0.02888	37.5	95.0
			C:	Taylorville 1					1831						
				Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1		0.22997	-0.01656	-64.1	-97.1		
				Open 136788 N CARTHG	115	136807 TAYLORVL	115	1		0.13589	-0.01214	12.5	-11.6		
				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1		0.66239	0.02888	37.5	95.0		
7511	2001.8	4088.1	L:	147840 MOSES W	230	999840 MOSES W	345	2		398.7	1152.0	0.37629	0.20561	307.6	719.2
			C:	HQ-NY-765-New					1888						
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.32141	0.28403	753.9	1322.5		
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.32141	0.24699	656.5	1150.9		
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-553.8		
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.26466	0.00000	-157.9	-157.9		
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
7512	2001.8	4088.1	L:	147840 MOSES W	230	999840 MOSES W	345	1		398.7	1152.0	0.37629	0.20561	307.6	719.2
			C:	HQ-NY-765-New					1888						
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.32141	0.28403	753.9	1322.5		
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.32141	0.24699	656.5	1150.9		
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-553.8		
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.26466	0.00000	-157.9	-157.9		
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
7513	2026.4	4112.5	L:	136764 COLTON	115	136771 FLAT RCK	115	1		48.1	142.0	0.04634	0.02881	29.8	88.2
			C:	136759 BRNS FLS	115	136775 HIGLEY	115	1	965						
				Open 136759 BRNS FLS	115	136775 HIGLEY	115	1		-0.60579	-0.02894	-30.2	-88.8		
7514	2044.8	4130.9	L:	136759 BRNS FLS	115	136771 FLAT RCK	115	1		-39.0	-135.0	-0.04694	-0.02881	-32.3	-91.2
			C:	HQ-NY-765-New					1888						
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03414	0.28403	753.9	1334.7		
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03414	0.24699	656.5	1161.5		
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-565.2		
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
				Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.03034	0.00000	-157.9	-157.9		
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						

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			Open	158	MS765SW2	765	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	765	147828	MASS	765	765	1	NA						
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0		percent dispatch						
			Set	bus 181319	CHAT G3		120	load to		357.0		MW dispatch						
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0		percent dispatch						
			Set	bus 181419	CHAT G4		120	load to		357.0		MW dispatch						
7515	2074.6	4160.6	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	2		52.7	134.0	0.03919		0.02888	37.5	97.4
			C:	BrownsFalls	1					1835								
			Open	136759	BRNS FLS	115	136771	FLAT RCK	115	1		0.33188	-0.02881			-32.3	-92.1	
			Open	136759	BRNS FLS	115	136790	NEWTON F	115	1		0.49634	0.00000			0.2	0.2	
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	1		0.68843	0.02888			37.5	97.4	
7516	2080.4	4166.4	L:	136759	BRNS FLS	115	136775	HIGLEY	115	1		-36.9	-135.0	-0.04716		-0.02894	-30.2	-90.4
			C:	HQ-NY-765-New						1888								
			Open	147827	MARCY765	765	147828	MASS	765	765	1	NA						
			Open	147828	MASS	765	180819	CHA-NY	765	1	NA							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.03430	0.28403			753.9	1344.8	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.03430	0.24699			656.5	1170.3	
			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.26551			-22.3	-574.7	
			Open	147828	MASS	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.03048	0.00000			-157.9	-157.9	
			Open	147828	MASS	765	147837	MASS230A	230	1	NA							
			Open	158	MS765SW2	765	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	765	147828	MASS	765	765	1	NA						
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0		percent dispatch						
			Set	bus 181319	CHAT G3		120	load to		357.0		MW dispatch						
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0		percent dispatch						
			Set	bus 181419	CHAT G4		120	load to		357.0		MW dispatch						
7517	2088.1	4174.1	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	1		53.3	135.0	0.03913		0.02888	37.5	97.8
			C:	BrownsFalls	2					1836								
			Open	136759	BRNS FLS	115	136775	HIGLEY	115	1		0.33289	-0.02894			-30.2	-90.6	
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	2		0.68890	0.02888			37.5	97.8	
7518	2097.0	4183.0	L:	125001	ROCK TAV	345	130750	COOPC345	345	2		-1244.5	-1793.0	-0.26158		-0.15730	-726.5	-1056.3
			C:	130750	COOPC345	345	146754	MDTN TAP	345	1	262							
			Open	130750	COOPC345	345	146754	MDTN TAP	345	1		-0.61383	0.16988			843.9	1200.1	
7519	2134.4	4220.2	L:	147827	MARCY765	765	147833	MARCY T1	345	2		1296.3	2338.0	0.48804		0.24699	656.5	1183.7
			C:	147827	MARCY765	765	147833	MARCY T1	345	1	1315							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.84869	0.28403			753.9	1360.1	
7520	2177.1	4262.9	L:	125001	ROCK TAV	345	130750	COOPC345	345	2		-1226.4	-1793.0	-0.26024		-0.15730	-726.5	-1068.9
			C:	SER:CMT34&MTR34						1703								
			Open	130750	COOPC345	345	146754	MDTN TAP	345	1		-0.56506	0.16988			843.9	1213.7	
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1		0.05249	-0.13228			-440.3	-728.3	
7521	2193.4	4279.1	L:	137729	PRINCETW	230	137730	ROTRDM.2	230	1		483.3	560.0	0.03497		0.01858	256.8	297.5
			C:	137729	PRINCETW	230	137730	ROTRDM.2	230	2	1201							
			Open	137729	PRINCETW	230	137730	ROTRDM.2	230	2		0.88232	0.01858			256.8	297.5	
7522	2193.4	4279.1	L:	137729	PRINCETW	230	137730	ROTRDM.2	230	2		483.3	560.0	0.03497		0.01858	256.8	297.5
			C:	137729	PRINCETW	230	137730	ROTRDM.2	230	1	1200							
			Open	137729	PRINCETW	230	137730	ROTRDM.2	230	1		0.88232	0.01858			256.8	297.5	
7523	2247.1	4332.7	L:	136764	COLTON	115	136771	FLAT RCK	115	1		36.5	142.0	0.04694		0.02881	29.8	94.6
			C:	HQ-NY-765-New						1888								
			Open	147827	MARCY765	765	147828	MASS	765	765	1	NA						
			Open	147828	MASS	765	180819	CHA-NY	765	1	NA							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.03414	0.28403			753.9	1392.1	
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.03414	0.24699			656.5	1211.5	
			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.26551			-22.3	-619.0	
			Open	147828	MASS	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.03034	0.00000			-157.9	-157.9	
			Open	147828	MASS	765	147837	MASS230A	230	1	NA							
			Open	158	MS765SW2	765	147828	MASS	765	765	1	NA						
			Open	157	MS765SW1	765	147828	MASS	765	765	1	NA						
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0		percent dispatch						
			Set	bus 181319	CHAT G3		120	load to		357.0		MW dispatch						
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0		percent dispatch						
			Set	bus 181419	CHAT G4		120	load to		357.0		MW dispatch						

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7524	2292.6	4378.0	L: 136764 COLTON	115	136775 HIGLEY	115	1	52.6	159.0	0.04643	0.02894	33.0	99.3	
			C:136759 BRNS FLS	115	136771 FLAT RCK	115	1	964						
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1				-0.60688	-0.02881	-32.3	-98.4
7525	2323.2	4408.5	L: Interface	40	NE-Zoned			-176.8	-258.0	-0.03495	0.00000	-84.0	-84.0	
			C:SPS:MARCY_AT1_AT2					1707						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.06581	0.28403	753.9	1413.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.06581	0.24699	656.5	1230.3
7526	2323.2	4408.5	L: 100511 GRAND IS	115	147852 PLAT T#3	115	1	-176.8	-258.0	-0.03495	0.00000	-84.0	-84.0	
			C:SPS:MARCY_AT1_AT2					1707						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.06581	0.28403	753.9	1413.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.06581	0.24699	656.5	1230.3
7527	2323.2	4408.5	L: Interface	39	ZoneD-NE			176.8	258.0	0.03495	-0.00000	84.0	84.0	
			C:SPS:MARCY_AT1_AT2					1707						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				0.06581	0.28403	753.9	1413.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.06581	0.24699	656.5	1230.3
7528	2325.3	4410.6	L: 136764 COLTON	115	136775 HIGLEY	115	1	51.0	159.0	0.04643	0.02894	33.0	100.2	
			C:136764 COLTON	115	136771 FLAT RCK	115	1	976						
			Open 136764 COLTON	115	136771 FLAT RCK	115	1				0.60688	0.02881	29.8	96.8
7529	2327.1	4412.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.3	-1725.0	-0.19239	-0.15812	-1085.6	-1453.6	
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.23309	-0.14702	-822.3	-1164.4
7530	2333.2	4418.5	L: 147827 MARCY765	765	147833 MARCY T1	345	1	859.8	1654.0	0.34040	0.28403	753.9	1416.6	
			C:147833 MARCY T1	345	999841 CHASES L	345	1	1321						
			Open 147833 MARCY T1	345	999841 CHASES L	345	1				-0.27539	-0.20469	-384.6	-862.2
7531	2348.4	4433.7	L: 147827 MARCY765	765	147833 MARCY T1	345	1	854.6	1654.0	0.34040	0.28403	753.9	1420.9	
			C:999835 ADRON B1	345	999841 CHASES L	345	1	1450						
			Open 999835 ADRON B1	345	999841 CHASES L	345	1				0.27539	0.20469	365.7	846.4
7532	2384.2	4469.4	L: 147827 MARCY765	765	147833 MARCY T1	345	1	842.8	1654.0	0.34024	0.28403	753.9	1431.1	
			C:999836 ADRON B2	345	999840 MOSES W	345	1	1451						
			Open 999836 ADRON B2	345	999840 MOSES W	345	1				-0.27216	-0.20654	-326.7	-819.1
7533	2386.2	4471.4	L: 147827 MARCY765	765	147833 MARCY T1	345	1	842.1	1654.0	0.34024	0.28403	753.9	1431.6	
			C:137200 EDIC	345	999836 ADRON B2	345	1	1030						
			Open 137200 EDIC	345	999836 ADRON B2	345	1				-0.27216	-0.20654	-324.2	-817.0
7534	2394.9	4480.0	L: 147840 MOSES W	230	999840 MOSES W	345	1	307.6	800.0	0.20561				
			Base Case											
7535	2394.9	4480.0	L: 147840 MOSES W	230	999840 MOSES W	345	2	307.6	800.0	0.20561				
			Base Case											
7536	2407.7	4492.8	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-40.8	-135.0	-0.03913	-0.02881	-32.3	-101.7	
			C:BrownsFalls 2					1836						
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1				0.66711	-0.02894	-30.2	-99.8
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2				0.31110	0.02888	37.5	107.0
7537	2410.9	4496.0	L: 147827 MARCY765	765	147833 MARCY T1	345	1	833.3	1654.0	0.34040	0.28403	753.9	1438.6	
			C:999835 ADRON B1	345	999840 MOSES W	345	1	1449						
			Open 999835 ADRON B1	345	999840 MOSES W	345	1				-0.27539	-0.20469	-288.5	-782.0
7538	2424.6	4509.7	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-40.0	-135.0	-0.03919	-0.02894	-30.2	-100.3	
			C:BrownsFalls 1					1835						
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1				0.66812	-0.02881	-32.3	-102.2
			Open 136759 BRNS FLS	115	136790 NEWTON F	115	1				0.50366	0.00000	0.2	0.2
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1				0.31157	0.02888	37.5	107.5
7539	2431.0	4516.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1188.0	-1792.0	-0.24847	-0.19834	-927.1	-1409.3	
			C:137728 PRINCETW	345	999837 JORDNVLL	345	1	1199						
			Open 137728 PRINCETW	345	999837 JORDNVLL	345	1				0.27437	-0.18271	-950.8	-1395.0
7540	2435.7	4520.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1185.1	-1792.0	-0.24918	-0.19834	-927.1	-1410.2	
			C:SIN:160					1781						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.28336	0.17942	837.8	1274.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.21189	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				-0.00037	0.00001	43.4	43.5
7541	2435.7	4520.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1185.1	-1792.0	-0.24918	-0.19834	-927.1	-1410.2	
			C:SIN:150					1780						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.28336	0.17942	837.8	1274.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.21192	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				-0.00025	0.00001	49.3	49.3
7542	2466.1	4551.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1179.3	-1792.0	-0.24847	-0.19834	-927.1	-1416.2	
			C:147833 MARCY T1	345	999837 JORDNVLL	345	1	1320						
			Open 147833 MARCY T1	345	999837 JORDNVLL	345	1				-0.27437	0.18271	919.1	1369.7



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7543	2530.3	4615.1	L: 136764 COLTON	115	136775 HIGLEY	115	1	39.7	159.0	0.04716	0.02894	33.0	106.2
			C:HQ-NY-765-New				1888						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.03430	0.28403	753.9	1472.6	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.03430	0.24699	656.5	1281.5	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.26551	-22.3	-694.2	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.03048	0.00000	-157.9	-157.9	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
7544	2543.4	4628.2	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1117.2	-1724.0	-0.23859	-0.16643	-826.5	-1249.8
			C:137452 N.SCOT77	345	137453 N.SCOT99	345	1	1087					
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.43762	-0.16488	-664.2	-1083.6	
7545	2560.3	4645.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1157.7	-1792.0	-0.24773	-0.19834	-927.1	-1434.9
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1027					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.27529	0.17942	837.8	1297.2	
7546	2569.4	4654.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1203.6	-1725.0	-0.20291	-0.15812	-1085.6	-1491.9
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1085					
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1		-0.29765	0.15047	396.5	783.1	
7547	2584.6	4669.3	L: 147827 MARCY765	765	147833 MARCY T1	345	1	753.9	1488.0	0.28403			
			Base Case										
7548	2604.5	4689.1	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-853.8	-1345.0	-0.18859	-0.15432	-719.1	-1121.1
			C:BUS:N.S._99				1726						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		0.06652	-0.14555	-427.2	-806.3	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.01525	0.00558	-400.8	-386.3	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.10833	-0.19834	-927.1	-1443.7	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.01344	0.00700	260.5	278.7	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.01868	-0.16643	-826.5	-1260.0	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00138	0.00000	3.8	3.8	
7549	2608.5	4693.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1131.3	-1724.0	-0.22723	-0.16632	-827.5	-1261.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083					
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.35787	-0.17021	-848.9	-1292.9	
7550	2623.8	4708.3	L: Interface 73 MarcySouthS					1693.5	2552.0	0.32718			
			Base Case										
7551	2628.9	4713.4	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.7	-1912.0	-0.16747	-0.11375	-983.2	-1282.2
			C:BUS:N.S._99				1726						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		0.11712	-0.14555	-427.2	-809.8	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.64409	0.00558	-400.8	-386.1	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.17080	-0.19834	-927.1	-1448.5	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.04088	0.00700	260.5	278.9	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.04010	-0.16643	-826.5	-1264.0	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12264	0.00000	3.8	3.8	
7552	2636.8	4721.3	L: Interface 72 MarcySouthN					1697.3	2725.0	0.38975	0.30790	1415.0	2226.9
			C:BUS:N.S._99				1726						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.15743	-0.14555	-427.2	-811.0	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.12857	0.00558	-400.8	-386.1	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.25488	-0.19834	-927.1	-1450.1	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.03453	0.00700	260.5	279.0	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-0.04753	-0.16643	-826.5	-1265.3	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.00154	0.00000	3.8	3.8	
7553	2650.4	4734.9	L: 136764 COLTON	115	136771 FLAT RCK	115	1	38.3	142.0	0.03913	0.02881	29.8	106.2
			C:BrownsFalls 2				1836						
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1		-0.66711	-0.02894	-30.2	-106.9	
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2		-0.31110	0.02888	37.5	114.0	
7554	2651.8	4736.2	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	45.8	134.0	0.03328	0.02888	37.5	114.1
			C:147833 MARCY T1	345	999841 CHASES L	345	1	1321					
			Open 147833 MARCY T1	345	999841 CHASES L	345	1		-0.02149	-0.20469	-384.6	-927.4	
7555	2653.6	4738.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1124.0	-1724.0	-0.22609	-0.16643	-826.5	-1268.1

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			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3		345	137452 N.SCOT77		345		0.35053	-0.17021	-848.9	-1300.5	
7556	2664.0	4748.4	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2		45.4	134.0	0.03328	0.02888	37.5	114.4
			C:999835 ADRON B1	345	999841 CHASES L	345	1	1450						
			Open 999835 ADRON B1		345	999841 CHASES L		345		0.02149	0.20469	365.7	911.0	
7557	2667.0	4751.4	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2		44.8	134.0	0.03346	0.02888	37.5	114.5
			C:999836 ADRON B2	345	999840 MOSES W	345	1	1451						
			Open 999836 ADRON B2		345	999840 MOSES W		345		-0.02221	-0.20654	-326.7	-877.5	
7558	2667.1	4751.5	L: 130753 FRASR345	345	137200 EDIC	345	1		-843.5	-1380.0	-0.20117	-0.15358	-695.8	-1105.5
			C:BUS:N.S._99					1726						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1			0.09091	-0.14555	-427.2	-815.4	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.11332	0.00558	-400.8	-385.9	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.14655	-0.19834	-927.1	-1456.1	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.02108	0.00700	260.5	279.2	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.02885	-0.16643	-826.5	-1270.4	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.00016	0.00000	3.8	3.8	
7559	2668.7	4753.1	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2		44.7	134.0	0.03346	0.02888	37.5	114.6
			C:137200 EDIC	345	999836 ADRON B2	345	1	1030						
			Open 137200 EDIC		345	999836 ADRON B2		345		-0.02221	-0.20654	-324.2	-875.4	
7560	2673.2	4757.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1103.7	1724.0	0.23205	0.17942	837.8	1317.4
			C:SIN:170					1782						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.26537	-0.19834	-927.1	-1457.3	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.20440	0.00000	97.0	97.0	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00038	0.00001	43.4	43.5	
7561	2673.2	4757.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1103.7	1724.0	0.23205	0.17942	837.8	1317.4
			C:SIN:180					1783						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.26537	-0.19834	-927.1	-1457.3	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.20443	0.00000	97.0	97.0	
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00025	0.00001	49.3	49.3	
7562	2681.8	4766.2	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1		45.8	135.0	0.03328	0.02888	37.5	114.9
			C:147833 MARCY T1	345	999841 CHASES L	345	1	1321						
			Open 147833 MARCY T1		345	999841 CHASES L		345		-0.02149	-0.20469	-384.6	-933.5	
7563	2682.1	4766.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1		-1233.9	-1725.0	-0.18309	-0.15047	-1051.5	-1455.1
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63						
			Open 125000 HURLEY 3		345	137451 LEEDS 3		345		0.22182	-0.14702	-822.3	-1216.6	
7564	2694.0	4778.3	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1		45.4	135.0	0.03328	0.02888	37.5	115.3
			C:999835 ADRON B1	345	999841 CHASES L	345	1	1450						
			Open 999835 ADRON B1		345	999841 CHASES L		345		0.02149	0.20469	365.7	917.1	
7565	2696.9	4781.2	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1		44.8	135.0	0.03346	0.02888	37.5	115.4
			C:999836 ADRON B2	345	999840 MOSES W	345	1	1451						
			Open 999836 ADRON B2		345	999840 MOSES W		345		-0.02221	-0.20654	-326.7	-883.7	
7566	2698.6	4782.9	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1		44.7	135.0	0.03346	0.02888	37.5	115.4
			C:137200 EDIC	345	999836 ADRON B2	345	1	1030						
			Open 137200 EDIC		345	999836 ADRON B2		345		-0.02221	-0.20654	-324.2	-881.6	
7567	2704.0	4788.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1116.8	-1724.0	-0.22457	-0.16632	-827.5	-1277.2
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084						
			Open 137451 LEEDS 3		345	137453 N.SCOT99		345		0.35002	-0.16643	-826.5	-1276.5	
7568	2713.8	4798.1	*L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2		43.7	134.0	0.03328	0.02888	37.5	115.9
			C:999835 ADRON B1	345	999840 MOSES W	345	1	1449						
			Open 999835 ADRON B1		345	999840 MOSES W		345		-0.02149	-0.20469	-288.5	-844.0	
7569	2719.7	4803.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1114.1	-1724.0	-0.22424	-0.16643	-826.5	-1279.1
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1	1082						
			Open 137451 LEEDS 3		345	137452 N.SCOT77		345		0.34761	-0.16632	-827.5	-1279.8	
7570	2723.1	4807.3	L: 136750 ALCOA-NM	115	136767 DENNISON	115	1		35.6	222.0	0.06844	0.04377	27.5	146.7
			C:HQ-NY-765-New					1888						
			Open 147827 MARCY765	765	147828 MASS 765	765	1							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.04645	0.28403	753.9	1527.3	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.04645	0.24699	656.5	1329.1	
			Open 156 MCY765SW	765	147827 MARCY765	765	1							
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.26551	-22.3	-745.3	
			Open 147828 MASS 765	765	147838 MASS230B	230	1							
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.04191	0.00000	-157.9	-157.9	
			Open 147828 MASS 765	765	147837 MASS230A	230	1							
			Open 158 MS765SW2	765	147828 MASS 765	765	1							

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			Open	157 MS765SW1	765 147828 MASS 765	765 1	NA						
			Decrease bus	180001 BEA-DLX	13.8 generation by		100.0 percent dispatch						
			Set bus	181319 CHAT G3	120 load to		357.0 MW dispatch						
			Decrease bus	180002 BEA-DL	13.8 generation by		100.0 percent dispatch						
			Set bus	181419 CHAT G4	120 load to		357.0 MW dispatch						
7571	2743.9	4828.1	L:	130753 FRASR345	345 137200 EDIC	345 1		-861.9	-1380.0	-0.18883		-0.15358	-695.8 -1117.2
			C:	BUS:N.S._77									
			Open	137452 N.SCOT77	345 137453 N.SCOT99	345 1		0.02965	-0.16488			-664.2	-1116.7
			Open	137452 N.SCOT77	345 137516 N.SCOT1	115 1		0.03434	0.00618			245.1	262.1
			Open	120601 STARS-00601	13.8 137452 N.SCOT77	345 01	NA						
			Open	137200 EDIC	345 137452 N.SCOT77	345 1		-0.17066	0.17942			837.8	1330.1
			Open	137450 ALPS345	345 137452 N.SCOT77	345 1		-0.02935	-0.00159			169.4	165.0
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 1		0.00000	-0.16632			-827.5	-1283.8
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 2		0.02721	0.00000			-250.0	-250.0
7572	2743.9	4828.1	*L:	136759 BRNS FLS	115 136807 TAYLORVL	115 1		43.7	135.0	0.03328		0.02888	37.5 116.7
			C:	999835 ADRON B1	345 999840 MOSES W	345 1	1449						
			Open	999835 ADRON B1	345 999840 MOSES W	345 1		-0.02149	-0.20469			-288.5	-850.1
7573	2748.7	4832.9	L:	137200 EDIC	345 137452 N.SCOT77	345 1		837.8	1331.0	0.17942			
				Base Case									
7574	2774.3	4858.4	L:	146758 CHESTER	138 146771 SHOEM138	138 1		-195.8	-317.0	-0.04367		-0.02003	-117.2 -172.7
			C:	125001 ROCK TAV	345 146754 MDTN TAP	345 1	70						
			Open	125001 ROCK TAV	345 146754 MDTN TAP	345 1		0.17873	-0.13228			-440.3	-807.3
7575	2783.3	4867.4	L:	Interface 72	MarcySouthN			1698.2	2725.0	0.36891		0.30790	1415.0 2272.0
			C:	BUS:N.S._77									
			Open	137452 N.SCOT77	345 137453 N.SCOT99	345 1		-0.06291	-0.16488			-664.2	-1123.2
			Open	137452 N.SCOT77	345 137516 N.SCOT1	115 1		-0.06292	0.00618			245.1	262.3
			Open	120601 STARS-00601	13.8 137452 N.SCOT77	345 01	NA						
			Open	137200 EDIC	345 137452 N.SCOT77	345 1		0.28483	0.17942			837.8	1337.2
			Open	137450 ALPS345	345 137452 N.SCOT77	345 1		0.04613	-0.00159			169.4	165.0
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 1		-0.00000	-0.16632			-827.5	-1290.4
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 2		-0.04155	0.00000			-250.0	-250.0
7576	2804.0	4888.1	L:	130753 FRASR345	345 137200 EDIC	345 1		-854.1	-1380.0	-0.18755		-0.15358	-695.8 -1126.5
			C:	130750 COOPC345	345 147833 MARCY T1	345 1	263						
			Open	130750 COOPC345	345 147833 MARCY T1	345 1		0.22009	-0.15432			-719.1	-1151.9
7577	2807.1	4891.2	L:	137200 EDIC	345 137452 N.SCOT77	345 1		1076.8	1724.0	0.23054		0.17942	837.8 1341.5
			C:	137453 N.SCOT99	345 147833 MARCY T1	345 1	1092						
			Open	137453 N.SCOT99	345 147833 MARCY T1	345 1		-0.25779	-0.19834			-927.1	-1483.9
7578	2823.0	4907.0	L:	137453 N.SCOT99	345 147833 MARCY T1	345 1		-927.1	-1487.0	-0.19834			
				Base Case									
7579	2824.7	4908.7	L:	130750 COOPC345	345 147833 MARCY T1	345 1		-836.3	-1345.0	-0.18008		-0.15432	-719.1 -1155.1
			C:	BUS:N.S._77									
			Open	137452 N.SCOT77	345 137453 N.SCOT99	345 1		0.03326	-0.16488			-664.2	-1130.0
			Open	137452 N.SCOT77	345 137516 N.SCOT1	115 1		0.02858	0.00618			245.1	262.6
			Open	120601 STARS-00601	13.8 137452 N.SCOT77	345 01	NA						
			Open	137200 EDIC	345 137452 N.SCOT77	345 1		-0.11417	0.17942			837.8	1344.6
			Open	137450 ALPS345	345 137452 N.SCOT77	345 1		-0.01678	-0.00159			169.4	164.9
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 1		0.00000	-0.16632			-827.5	-1297.3
			Open	137451 LEEDS 3	345 137452 N.SCOT77	345 2		0.01434	0.00000			-250.0	-250.0
7581	2844.5	4928.4	L:	136759 BRNS FLS	115 136771 FLAT RCK	115 1		-40.6	-135.0	-0.03320		-0.02881	-32.3 -114.3
			C:	147833 MARCY T1	345 999841 CHASES L	345 1	1321						
			Open	147833 MARCY T1	345 999841 CHASES L	345 1		0.02144	-0.20469			-384.6	-966.8
7583	2856.7	4940.6	L:	136759 BRNS FLS	115 136771 FLAT RCK	115 1		-40.2	-135.0	-0.03320		-0.02881	-32.3 -114.6
			C:	999835 ADRON B1	345 999841 CHASES L	345 1	1450						
			Open	999835 ADRON B1	345 999841 CHASES L	345 1		-0.02144	0.20469			365.7	950.4
7584	2858.7	4942.6	L:	136759 BRNS FLS	115 136771 FLAT RCK	115 1		-39.6	-135.0	-0.03339		-0.02881	-32.3 -114.7
			C:	999836 ADRON B2	345 999840 MOSES W	345 1	1451						
			Open	999836 ADRON B2	345 999840 MOSES W	345 1		0.02216	-0.20654			-326.7	-917.1
7585	2860.3	4944.2	L:	136759 BRNS FLS	115 136771 FLAT RCK	115 1		-39.5	-135.0	-0.03339		-0.02881	-32.3 -114.7
			C:	137200 EDIC	345 999836 ADRON B2	345 1	1030						
			Open	137200 EDIC	345 999836 ADRON B2	345 1		0.02216	-0.20654			-324.2	-915.0
7586	2866.7	4950.6	L:	130753 FRASR345	345 137200 EDIC	345 1		-870.0	-1380.0	-0.17789		-0.15358	-695.8 -1136.1
			C:	130755 OAKDL345	345 131128 LAPEER	345 1	277						
			Open	130755 OAKDL345	345 131128 LAPEER	345 1		0.26326	-0.09235			-661.7	-926.4
7587	2873.5	4957.3	L:	126294 PLTVLLEY	345 137451 LEEDS 3	345 2		-1193.7	-1725.0	-0.18489		-0.15812	-1085.6 -1540.0
			C:	125000 HURLEY 3	345 125002 ROSETON	345 1	61						

Moses South

			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				-0.20766	0.12891	520.6	891.0
7588	2894.9	4978.7	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-38.5	-135.0	-0.03335	-0.02894	-30.2	-114.0	
			C:147833 MARCY T1	345	999841 CHASES L	345	1							
			Open 147833 MARCY T1	345	999841 CHASES L	345	1				0.02154	-0.20469	-384.6	-977.1
7589	2906.6	4990.3	*L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-38.5	-135.0	-0.03320	-0.02881	-32.3	-116.1	
			C:999835 ADRON B1	345	999840 MOSES W	345	1							
			Open 999835 ADRON B1	345	999840 MOSES W	345	1				0.02144	-0.20469	-288.5	-883.4
7590	2907.1	4990.8	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-38.0	-135.0	-0.03335	-0.02894	-30.2	-114.3	
			C:999835 ADRON B1	345	999841 CHASES L	345	1							
			Open 999835 ADRON B1	345	999841 CHASES L	345	1				-0.02154	0.20469	365.7	960.8
7591	2908.8	4992.5	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-37.4	-135.0	-0.03354	-0.02894	-30.2	-114.4	
			C:999836 ADRON B2	345	999840 MOSES W	345	1							
			Open 999836 ADRON B2	345	999840 MOSES W	345	1				0.02226	-0.20654	-326.7	-927.4
7592	2909.3	4993.0	L: 130753 FRASR345	345	137200 EDIC	345	1	-848.3	-1380.0	-0.18276	-0.15358	-695.8	-1142.7	
			C:SIN:170											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.14712	-0.19834	-927.1	-1504.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.16535	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				-0.00068	0.00001	43.4	43.5
7593	2909.3	4993.0	L: 130753 FRASR345	345	137200 EDIC	345	1	-848.3	-1380.0	-0.18276	-0.15358	-695.8	-1142.7	
			C:SIN:180											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.14712	-0.19834	-927.1	-1504.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.16541	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				-0.00046	0.00001	49.3	49.3
7594	2910.4	4994.2	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-37.4	-135.0	-0.03354	-0.02894	-30.2	-114.4	
			C:137200 EDIC	345	999836 ADRON B2	345	1							
			Open 137200 EDIC	345	999836 ADRON B2	345	1				0.02226	-0.20654	-324.2	-925.3
7595	2917.0	5000.7	L: 125000 HURLEY 3	345	125030 HURLEY 1	115	1	374.5	488.0	0.03890	0.01811	290.6	343.4	
			C:125000 HURLEY 3	345	125002 ROSETON	345	1							
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1				0.16127	0.12891	520.6	896.6
7596	2920.5	5004.2	L: 137728 PRINCETW	345	137729 PRINCETW	230	1	441.2	635.0	0.06636	0.01858	256.8	311.0	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.14555	-427.2	-852.3
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	0.00558	-400.8	-384.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.19834	-927.1	-1506.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00700	260.5	281.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.16643	-826.5	-1312.5
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
7597	2920.5	5004.2	L: 137728 PRINCETW	345	137729 PRINCETW	230	2	441.2	635.0	0.06636	0.01858	256.8	311.0	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.14555	-427.2	-852.3
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	0.00558	-400.8	-384.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.19834	-927.1	-1506.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00700	260.5	281.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.16643	-826.5	-1312.5
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
7598	2922.0	5005.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-874.2	-1380.0	-0.17311	-0.15358	-695.8	-1144.6	
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1							
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.23940	-0.08159	-744.9	-983.3
7599	2925.6	5009.3	L: Interface 73 MarcySouthS					1945.1	3048.0	0.37697	0.32718	1693.5	2650.7	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.09778	-0.14555	-427.2	-853.0
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.10744	0.00558	-400.8	-384.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.16109	-0.19834	-927.1	-1507.3
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.01545	0.00700	260.5	281.0
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.02594	-0.16643	-826.5	-1313.4
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.00583	0.00000	3.8	3.8
7600	2934.1	5017.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1067.9	1724.0	0.22362	0.17942	837.8	1364.3	
			C:137728 PRINCETW	345	999837 JORDNVLL	345	1							
			Open 137728 PRINCETW	345	999837 JORDNVLL	345	1				-0.24194	-0.18271	-950.8	-1486.9
7601	2945.7	5029.3	L: 136750 ALCOA-NM	115	136767 DENNISON	115	1	88.3	222.0	0.04539	0.04377	27.5	156.5	
			C:136783 MALONE	115	147856 WILL 115	115	1							
			Open 136783 MALONE	115	147856 WILL 115	115	1				-0.59339	-0.00272	-102.4	-110.4
7602	2956.9	5040.6	*L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-36.4	-135.0	-0.03335	-0.02894	-30.2	-115.7	
			C:999835 ADRON B1	345	999840 MOSES W	345	1							
			Open 999835 ADRON B1	345	999840 MOSES W	345	1				0.02154	-0.20469	-288.5	-893.8

Moses South

7603	2960.4	5044.0	L: 136750 ALCOA-NM	115	147847 ALCOA N	115	1	-55.3	-310.0	-0.08604	-0.05503	27.1	-135.8
			C:SPS:MARCY_AT1_AT2									1707	
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.05840	0.28403	753.9	1594.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.05840	0.24699	656.5	1387.7
7604	2965.9	5049.5	L: 136764 COLTON	115	136775 HIGLEY	115	1	42.8	159.0	0.03919	0.02894	33.0	118.8
			C:BrownsFalls 1									1835	
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1			-0.66812	-0.02881	-32.3	-117.8
			Open 136759 BRNS FLS	115	136790 NEWTON F	115	1			-0.50366	0.00000	0.2	0.2
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1			-0.31157	0.02888	37.5	123.1
7605	2966.3	5049.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-504.7	-707.0	-0.06820	-0.03761	-402.9	-514.4
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1					70	
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.23130	-0.13228	-440.3	-832.7
7606	2966.5	5050.1	L: Interface 72 MarcySouthN					1667.1	2725.0	0.35661	0.30790	1415.0	2328.4
			C:SIN:170									1782	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.24560	-0.19834	-927.1	-1515.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.25157	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00095	0.00001	43.4	43.5
7607	2966.5	5050.1	L: Interface 72 MarcySouthN					1667.1	2725.0	0.35661	0.30790	1415.0	2328.4
			C:SIN:180									1783	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.24560	-0.19834	-927.1	-1515.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.25165	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00064	0.00001	49.3	49.3
7608	2968.4	5052.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1060.2	1724.0	0.22362	0.17942	837.8	1370.4
			C:147833 MARCY T1	345	999837 JORDNVLL	345	1					1320	
			Open 147833 MARCY T1	345	999837 JORDNVLL	345	1			0.24194	0.18271	919.1	1461.5
7609	2971.1	5054.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1196.7	-1725.0	-0.17782	-0.15812	-1085.6	-1555.4
			C:130750 COOPC345	345	130753 FRASR345	345	1					259	
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.11396	-0.17286	-974.4	-1488.0
7611	2985.1	5068.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-839.8	-1380.0	-0.18097	-0.15358	-695.8	-1154.3
			C:SIN:160									1781	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.15264	0.17942	837.8	1373.4
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.16532	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00069	0.00001	43.4	43.5
7612	2985.2	5068.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-839.8	-1380.0	-0.18097	-0.15358	-695.8	-1154.3
			C:SIN:150									1780	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.15264	0.17942	837.8	1373.4
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.16537	0.00000	97.0	97.0
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00046	0.00001	49.3	49.3

TotalEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, AUG 29 2011 15:32  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3796  
 First violation - 697.6 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3796 violations

Interface-1 Interface 5 TOTAL EAST Init.Flow= 6725.45 TDF= 1.0005

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	697.6	7423.4	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1517.4	-1724.0	-0.29621	-0.15055	-826.5 -931.5
			C:BUS:N.S._77 1725					
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16088	-664.2 -776.5
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00564	245.1 249.1
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA				
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.15056	837.8 942.9
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00158	169.4 168.3
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15035	-827.5 -932.4
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0 -250.0
2	926.2	7652.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.6	383.0	0.06411	0.05248	263.9 312.6
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.10144	-520.7 -614.7
3	938.6	7664.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.9	383.0	0.06406	0.05248	263.9 313.2
			C:SER:HCWC/NWES 1718					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.02304	74.1 52.4
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.10144	-520.7 -616.0
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	-0.02056	-45.4 -64.7
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	943.8	7669.7	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.06410	0.05248	263.9 313.5
			C:SER:HC-WC_30&W-F_171 1712					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	0.00539	-7.1 -2.0
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.10144	-520.7 -616.5
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	-0.02056	-45.4 -64.8
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
5	964.5	7690.5	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-321.2	-383.0	-0.06411	-0.05248	-261.5 -312.1
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11461	-0.10144	-520.7 -618.6
6	977.0	7703.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.4	-383.0	-0.06406	-0.05248	-261.5 -312.8
			C:SER:HCWC/NWES 1718					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00558	-0.02304	74.1 51.5
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11477	-0.10144	-520.7 -619.8
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			-0.00933	-0.02056	-45.4 -65.5
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
7	982.1	7708.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.0	-383.0	-0.06410	-0.05248	-261.5 -313.0
			C:SER:HC-WC_30&W-F_171 1712					
			Open 135277 FALCONER 115 200579 WARREN 115 1			-0.04698	0.00539	-7.1 -1.8
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				

TotalEast

			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11394	-0.10144	-520.7	-620.4	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00956	-0.02056	-45.4	-65.6	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
8	1009.1	7735.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	320.1	383.0	0.06236	0.05248	263.9	316.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11461	0.08622	489.7	576.7	
9	1031.5	7757.4	L: 130750 COOPC345	345	130753	FRASR345	345	1	-974.4	-1207.0	-0.22551			
			Base Case											
10	1045.8	7771.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	318.4	383.0	0.06175	0.05248	263.9	318.8
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11461	-0.08088	-475.3	-559.9	
11	1048.5	7774.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-317.6	-383.0	-0.06236	-0.05248	-261.5	-316.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.11461	0.08622	489.7	580.1	
12	1085.6	7811.6	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-316.0	-383.0	-0.06175	-0.05248	-261.5	-318.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.11461	-0.08088	-475.3	-563.1	
13	1149.4	7875.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	329.7	383.0	0.04640	0.05248	263.9	324.3
			C:BUS:WATERCURE_345											1743
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.04479	-0.10144	-520.7	-637.3	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.15980	-0.06646	265.3	188.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.03638	0.00000	-0.0	-0.0	
14	1202.4	7928.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-327.2	-383.0	-0.04640	-0.05248	-261.5	-324.6
			C:BUS:WATERCURE_345											1743
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.04479	-0.10144	-520.7	-642.7	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.15980	-0.06646	265.3	185.4	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.03638	0.00000	-0.0	-0.0	
15	1386.2	8112.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.7	383.0	0.05650	0.05248	263.9	336.7
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		-0.06156	-0.06530	-661.7	-752.2	
16	1429.7	8155.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-302.2	-383.0	-0.05650	-0.05248	-261.5	-336.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		0.06156	-0.06530	-661.7	-755.0	
17	1436.0	8162.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.4	383.0	0.05475	0.05248	263.9	339.3
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		-0.05429	-0.04175	-744.9	-804.8	
18	1477.1	8203.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1427.7	-1725.0	-0.20126	-0.15370	-1085.6	-1312.6
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1						183
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1		0.30372	-0.15659	-1126.4	-1357.7	
19	1480.9	8207.1	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-301.9	-383.0	-0.05475	-0.05248	-261.5	-339.2
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		0.05429	-0.04175	-744.9	-806.7	
20	1551.7	8278.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1274.1	-1703.0	-0.27642	-0.22551	-974.4	-1324.3
			C:130750 COOPC345	345	147833	MARCY T1	345	1						263
			Open 130750 COOPC345	345	147833	MARCY T1	345	1		0.41671	-0.12217	-719.1	-908.7	
21	1568.9	8295.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	291.8	383.0	0.05814	0.05248	263.9	346.3
			C:130774 BATH 115	115	131347	HOWARD	115	1						299
			Open 130774 BATH 115	115	131347	HOWARD	115	1		-0.28676	-0.01974	-97.1	-128.0	
22	1596.5	8322.7	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1085.6	-1331.0	-0.15370			
			Base Case											
23	1611.2	8337.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-289.3	-383.0	-0.05814	-0.05248	-261.5	-346.0
			C:130774 BATH 115	115	131347	HOWARD	115	1						299
			Open 130774 BATH 115	115	131347	HOWARD	115	1		0.28676	-0.01974	-97.1	-128.9	
24	1624.0	8350.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	289.0	383.0	0.05786	0.05248	263.9	349.2
			C:131342 BENET115	115	131347	HOWARD	115	1						472
			Open 131342 BENET115	115	131347	HOWARD	115	1		0.28676	0.01875	87.5	118.0	
25	1654.8	8381.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1398.6	-1725.0	-0.19724	-0.15370	-1085.6	-1340.0
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1						185
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.29765	-0.14627	-1051.5	-1293.6	
26	1666.5	8392.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-286.6	-383.0	-0.05786	-0.05248	-261.5	-348.9
			C:131342 BENET115	115	131347	HOWARD	115	1						472
			Open 131342 BENET115	115	131347	HOWARD	115	1		-0.28676	0.01875	87.5	118.8	
30	1737.8	8464.1	L: 130750 COOPC345	345	146754	MDTN TAP	345	1	1297.9	1793.0	0.28492	0.18036	843.9	1157.3
			C:125001 ROCK TAV	345	130750	COOPC345	345	2						69

TotalEast

			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62491	-0.16732	-726.5	-1017.2
31	1739.1	8465.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.03152	0.02256	83.6	122.8	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04916	0.18214	704.6	1021.4
33	1755.5	8481.9	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.5	-402.0	-0.03162	-0.00861	-236.5	-251.6	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.13877	-0.12067	-427.2	-639.0
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.01297	-0.03771	-400.8	-467.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03885	-0.15946	-927.1	-1207.0
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.05287	0.00642	260.5	271.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00510	-0.15055	-826.5	-1090.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01886	0.00000	3.8	3.8
37	1813.1	8539.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.6	-430.0	-0.06033				
			Base Case											
40	1816.5	8542.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.1	-1725.0	-0.19153	-0.14627	-1051.5	-1317.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.28903	-0.15659	-1126.4	-1410.8
50	1898.0	8624.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.5	-1725.0	-0.19044	-0.14627	-1051.5	-1329.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.28739	-0.15370	-1085.6	-1377.4
57	1910.6	8637.1	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.5	-1331.0	-0.14627				
			Base Case											
80	1972.9	8699.4	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1244.5	-1793.0	-0.27803	-0.16732	-726.5	-1056.6	
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	262						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61383	0.18036	843.9	1199.7
94	2042.0	8768.5	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.7	-1912.0	-0.21561	-0.14417	-983.2	-1277.6	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.11712	-0.12067	-427.2	-673.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64409	-0.03771	-400.8	-477.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17080	-0.15946	-927.1	-1252.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.04088	0.00642	260.5	273.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.04010	-0.15055	-826.5	-1133.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12264	0.00000	3.8	3.8
96	2047.8	8774.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1226.4	-1793.0	-0.27667	-0.16732	-726.5	-1069.1	
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.56506	0.18036	843.9	1213.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.05249	-0.14165	-440.3	-730.4
121	2098.2	8824.7	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.9	-1345.0	-0.17974	-0.12217	-719.1	-975.5	
			C:130750 COOPC345	345	130753 FRASR345	345	1	259						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25527	-0.22551	-974.4	-1447.6
158	2141.8	8868.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1234.6	1724.0	0.22852	0.15056	837.8	1160.3	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.23695	-0.12067	-427.2	-685.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14231	-0.03771	-400.8	-481.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.34308	-0.15946	-927.1	-1268.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08889	0.00642	260.5	274.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06737	-0.15055	-826.5	-1148.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19736	0.00000	3.8	3.8
173	2159.8	8886.3	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.2	1685.0	0.25084	0.18214	704.6	1098.0	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53277	0.12894	823.3	1101.8
199	2180.7	8907.3	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15055	-826.5	-1154.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
200	2180.7	8907.3	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5



TotalEast

				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00683	-0.15055	-826.5	-1154.8	
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8	
219	2210.4	8937.0	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1057.6	-1703.0	-0.29198	-0.22551	-974.4	-1472.9
			C:	130753 FRASR345	345	147831 GILB 345	345	1	271					
				Open 130753 FRASR345	345	147831 GILB 345	345	1		-0.36545	0.18188	227.7	629.7	
287	2237.4	8964.0	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1	-101.3	-173.0	-0.03205	-0.02295	-66.1	-117.4
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04999	0.18214	704.6	1112.1	
1059	2268.5	8995.1	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1	263.9	383.0	0.05248			
				Base Case										
1965	2295.9	9022.5	L:	131122 WTHRS230	230	134750 DAIRY230	230	1	308.6	430.0	0.05287			
				Base Case										
2097	2309.3	9035.9	L:	130757 WATRC345	345	135249 ARMENMTN	345	1	-520.7	-755.0	-0.10144			
				Base Case										
2806	2315.4	9042.0	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1	-261.5	-383.0	-0.05248			
				Base Case										
3594	2353.5	9080.1	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1121.5	-1703.0	-0.24708	-0.22551	-974.4	-1505.1
			C:	137451 LEEDS 3	345	147831 GILB 345	345	1	1086					
				Open 137451 LEEDS 3	345	147831 GILB 345	345	1		0.14962	-0.14417	-983.2	-1322.5	
3596	2354.1	9080.8	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-373.6	-540.0	-0.07067	-0.06033	-320.6	-462.6
			C:	130757 WATRC345	345	135249 ARMENMTN	345	1	281					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10185	-0.10144	-520.7	-759.5	
3604	2363.3	9090.0	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-371.8	-540.0	-0.07119	-0.06033	-320.6	-463.2
			C:	SER:HCWC/NWES					1718					
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02616	-0.02304	74.1	19.6	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10260	-0.10144	-520.7	-760.5	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00755	-0.02056	-45.4	-94.0	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3611	2366.7	9093.4	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-372.8	-540.0	-0.07063	-0.06033	-320.6	-463.4
			C:	SER:HC-WC_30&W-F_171					1712					
				Open 135277 FALCONER	115	200579 WARREN	115	1		-0.03199	0.00539	-7.1	5.7	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10139	-0.10144	-520.7	-760.8	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00771	-0.02056	-45.4	-94.1	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3637	2390.2	9116.9	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-367.1	-540.0	-0.07235	-0.06033	-320.6	-464.8
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.06595	0.18214	704.6	1140.0	
3641	2395.6	9122.3	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.3	-1725.0	-0.18689	-0.15370	-1085.6	-1453.8
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	63					
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.23309	-0.14238	-822.3	-1163.3	
3643	2400.0	9126.7	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	324.1	478.0	0.06411	0.05248	264.5	390.4
			C:	130757 WATRC345	345	135249 ARMENMTN	345	1	281					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11461	-0.10144	-520.7	-764.2	
3647	2413.5	9140.2	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.4	478.0	0.06406	0.05248	264.5	391.1
			C:	SER:HCWC/NWES					1718					
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.00558	-0.02304	74.1	18.4	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11477	-0.10144	-520.7	-765.6	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00933	-0.02056	-45.4	-95.0	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3654	2417.8	9144.5	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.0	478.0	0.06410	0.05248	264.5	391.4
			C:	SER:HC-WC_30&W-F_171					1712					
				Open 135277 FALCONER	115	200579 WARREN	115	1		0.04698	0.00539	-7.1	5.9	
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11394	-0.10144	-520.7	-766.0	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00956	-0.02056	-45.4	-95.1	
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3666	2452.6	9179.3	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-370.5	-540.0	-0.06912	-0.06033	-320.6	-468.6
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					

TotalEast

3672	2469.1	9195.8	L: Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	-0.10185	0.08622	489.7	701.2			
			Interface 73 MarcySouthS						1693.5	2552.0	0.34768				
			Base Case												
3673	2470.3	9197.0	L: 130757 WATRC345	345	130768	WATRC230	230	1	455.4	600.0	0.05852	-0.06646	265.3	101.1	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.74437	-0.16791	-255.4	-670.2
3677	2493.4	9220.1	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-369.0	-540.0	-0.06857	-0.06033	-320.6	-471.0	
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.10185	-0.08088	-475.3	-677.0
3682	2503.5	9230.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	297.9	430.0	0.05277				
			Base Case												
3686	2513.1	9239.8	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1091.3	-1703.0	-0.24340	-0.22551	-974.4	-1541.1	
			C:BUS:N.S._99					1726							
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1				0.03126	-0.12067	-427.2	-730.5
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.12269	-0.03771	-400.8	-495.5
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.05276	-0.15946	-927.1	-1327.8
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				0.00201	0.00642	260.5	276.7
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.00725	-0.15055	-826.5	-1204.8
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.00445	0.00000	3.8	3.8
3692	2524.1	9250.9	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	320.6	478.0	0.06236	0.05248	264.5	396.9	
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.11461	0.08622	489.7	707.4
3708	2575.8	9302.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	318.9	478.0	0.06175	0.05248	264.5	399.6	
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.11461	-0.08088	-475.3	-683.7
3711	2586.0	9312.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-365.7	-540.0	-0.06740	-0.06033	-320.6	-476.6	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				-0.05478	0.12894	823.3	1156.8
3719	2622.4	9349.2	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-195.8	-317.0	-0.04620	-0.02088	-117.2	-171.9	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	70						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.17873	-0.14165	-440.3	-811.7
3727	2643.3	9370.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1203.6	-1725.0	-0.19724	-0.15370	-1085.6	-1491.9	
			C:137451 LEEDS 3	345	137455	ATHENS	345	1	1085						
			Open 137451 LEEDS 3	345	137455	ATHENS	345	1				-0.29765	0.14627	396.5	783.1
3730	2652.8	9379.6	L: 130754 KINTI345	345	149000	ROCH 345	345	1	1131.6	1685.0	0.20863	0.12894	823.3	1165.4	
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.43748	0.18214	704.6	1187.8
3741	2690.9	9417.8	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	21.5	143.0	0.04517	0.02960	-2.2	77.4	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09271	-0.16791	-255.4	-707.3
3742	2692.9	9419.8	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1051.5	-1703.0	-0.24194	-0.22551	-974.4	-1581.7	
			C:BUS:N.S._77					1725							
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.04149	-0.16088	-664.2	-1097.5
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.02355	0.00564	245.1	260.3
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.06564	0.15056	837.8	1243.3
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.00083	-0.00158	169.4	165.2
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.00000	-0.15035	-827.5	-1232.3
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2				0.00064	0.00000	-250.0	-250.0
3748	2737.7	9464.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-19.3	-143.0	-0.04517	-0.02960	4.3	-76.7	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.09271	-0.16791	-255.4	-715.1
3750	2744.1	9471.0	L: 137451 LEEDS 3	345	147831	GILB 345	345	1	-1333.0	-1912.0	-0.21098	-0.14417	-983.2	-1378.8	
			C:BUS:N.S._77					1725							
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.20828	-0.16088	-664.2	-1105.7
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.17586	0.00564	245.1	260.6
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.22922	0.15056	837.8	1251.0
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.13646	-0.00158	169.4	165.1
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.00000	-0.15035	-827.5	-1240.0
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2				0.15776	0.00000	-250.0	-250.0
3751	2746.5	9473.3	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1117.2	-1724.0	-0.22095	-0.15055	-826.5	-1240.0	
			C:137452 N.SCOT77	345	137453	N.SCOT99	345	1	1087						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.43762	-0.16088	-664.2	-1106.1
3754	2752.6	9479.5	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1047.4	-1703.0	-0.23816	-0.22551	-974.4	-1595.1	

TotalEast

			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63							
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.08883	-0.14238	-822.3	-1214.2			
3757	2761.1	9488.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1233.9	-1725.0	-0.17785	-0.14627	-1051.5	-1455.4		
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63							
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.22182	-0.14238	-822.3	-1215.4			
3761	2801.9	9528.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-378.0	-540.0	-0.05781	-0.06033	-320.6	-489.7		
			C:BUS:WATERCURE_345					1743							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.05113	-0.10144	-520.7	-805.0			
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11608	-0.06646	265.3	79.1			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04425	0.00000	-0.0	-0.0			
3763	2806.1	9532.9	L: Interface 73 MarcySouthS					1945.1	3048.0	0.39303	0.34768	1693.5	2669.2		
			C:BUS:N.S._99					1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.09778	-0.12067	-427.2	-765.8			
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.10744	-0.03771	-400.8	-506.6			
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.16109	-0.15946	-927.1	-1374.5			
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.01545	0.00642	260.5	278.5			
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-0.02594	-0.15055	-826.5	-1248.9			
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.00583	0.00000	3.8	3.8			
3764	2821.9	9548.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	361.6	540.0	0.06321	0.05287	308.6	457.8		
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10185	-0.10144	-520.7	-807.0			
3765	2828.3	9555.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	359.8	540.0	0.06373	0.05287	308.6	458.2		
			C:SER:HCWC/NWES					1718							
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.02616	-0.02304	74.1	8.9			
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10260	-0.10144	-520.7	-807.7			
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00755	-0.02056	-45.4	-103.5			
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
3766	2830.4	9557.3	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-504.7	-707.0	-0.07148	-0.03871	-402.9	-512.4		
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	70							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.23130	-0.14165	-440.3	-841.2			
3767	2836.2	9563.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	360.8	540.0	0.06317	0.05287	308.6	458.6		
			C:SER:HC-WC_30&W-F_171					1712							
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.03199	0.00539	-7.1	8.2			
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10139	-0.10144	-520.7	-808.4			
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00771	-0.02056	-45.4	-103.7			
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
3768	2841.3	9568.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1037.4	-1703.0	-0.23427	-0.22551	-974.4	-1615.1		
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.05592	-0.15659	-1126.4	-1571.3			
3769	2850.0	9576.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	355.1	540.0	0.06489	0.05287	308.6	459.3		
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.06595	0.18214	704.6	1223.7			
3770	2855.0	9581.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1034.8	-1703.0	-0.23406	-0.22551	-974.4	-1618.2		
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		0.05560	-0.15370	-1085.6	-1524.4			
3771	2873.2	9600.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1032.0	-1703.0	-0.23353	-0.22551	-974.4	-1622.3		
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.05480	-0.14627	-1051.5	-1471.8			
3773	2885.6	9612.6	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1131.3	-1724.0	-0.20541	-0.15035	-827.5	-1261.3		
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.35787	-0.15387	-848.9	-1292.9			
3774	2903.4	9630.3	L: 130750 COOPC345	345	130753 FRASR345	345	1	-983.8	-1703.0	-0.24771	-0.22551	-974.4	-1629.1		
			C:137200 EDIC	345	147833 MARCY T1	345	1	1029							
			Open 137200 EDIC	345	147833 MARCY T1	345	1		-0.08806	0.25213	106.7	838.8			
3777	2934.0	9661.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1124.0	-1724.0	-0.20448	-0.15055	-826.5	-1268.2		
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.35053	-0.15387	-848.9	-1300.3			
3778	2944.1	9671.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	358.5	540.0	0.06166	0.05287	308.6	464.3		
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10185	0.08622	489.7	743.6			
3779	2945.0	9671.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1196.7	-1725.0	-0.17940	-0.15370	-1085.6	-1538.3		

TotalEast

			C:130750 COOPC345	345	130753 FRASR345	345	1	259											
			Open 130750 COOPC345		345	130753 FRASR345	345	1				0.11396	-0.22551	-974.4	-1638.5				
3780	2945.3	9672.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-78.6	-173.0	-0.03205		-0.02295	-43.4	-111.0				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325											
			Open 147834 NIAG 345		345	149000 ROCH 345	345	1				-0.04999	0.18214	704.6	1241.1				
3781	2949.6	9676.6	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:150					1780											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59335	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	147905 ILION	115	1				0.00187	-0.00567	49.3	32.6				
3782	2949.6	9676.6	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:160					1781											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59313	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	137246 VALLEY	115	1				0.00280	-0.00501	43.4	28.6				
3786	2959.7	9686.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1193.7	-1725.0	-0.17950		-0.15370	-1085.6	-1540.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				-0.20766	0.12426	520.6	888.3				
3788	2974.0	9700.9	L: 125000 HURLEY 3	345	125030 HURLEY 1	115	1		374.5	488.0	0.03816		0.01812	290.6	344.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				0.16127	0.12426	520.6	890.1				
3790	2990.8	9717.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1116.8	-1724.0	-0.20304		-0.15035	-827.5	-1277.1				
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084											
			Open 137451 LEEDS 3		345	137453 N.SCOT99	345	2				0.35002	-0.15055	-826.5	-1276.7				
3791	2994.2	9721.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		357.0	540.0	0.06111		0.05287	308.6	466.9				
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1458											
			Open 95593 CHERYFLT		345	200769 HOMER CY	345	1				-0.10185	-0.08088	-475.3	-717.5				
3792	2996.3	9723.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		350.9	540.0	0.06311		0.05277	297.9	456.0				
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281											
			Open 130757 WATRC345		345	135249 ARMENMTN	345	1				-0.10185	-0.10144	-520.7	-824.7				

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, AUG 29 2011 15:32  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3796  
 First violation - 697.6 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3796 violations

Interface-1 Interface 6 CENTRAL EAST Init.Flow= 2834.87 TDF= 0.4707

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment	
			C: Contingency description	___Ncon	Flow	Rating	LODF	Init Final		
1	697.6	3163.2	L: 137451 LEEDS 3	345	137453	N.SCOT99	345 2	-1517.4 -1724.0 -0.29621	-0.15055 -826.5 -931.5	Invalid contingency New Scotland will have breaker and a half configuration
			C:BUS:N.S._77				1725			
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345 1	0.57690 -0.16088	-664.2 -776.5	
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115 1	0.43450 0.00564	245.1 249.1	
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345 01	NA		
			Open 137200 EDIC	345	137452	N.SCOT77	345 1	-0.37047 0.15056	837.8 942.9	
			Open 137450 ALPS345	345	137452	N.SCOT77	345 1	-0.29758 -0.00158	169.4 168.3	
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345 1	0.00000 -0.15035	-827.5 -932.4	
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345 2	0.21348 0.00000	-250.0 -250.0	
2	926.2	3270.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230 1	323.6 383.0 0.06411	0.05248 263.9 312.6	
			C:130757 WATRC345	345	135249	ARMENMTN	345 1	281		
			Open 130757 WATRC345	345	135249	ARMENMTN	345 1	-0.11461 -0.10144	-520.7 -614.7	
3	938.6	3276.7	L: 130761 AVOCA230	230	131154	STONY RIDGE	230 1	322.9 383.0 0.06406	0.05248 263.9 313.2	
			C:SER:HCWC/NWES				1718			
			Open 130836 N.WAV115	115	200676	E.SAYRE	115 1	-0.00558 -0.02304	74.1 52.4	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345 1	NA		
			Open 130757 WATRC345	345	135249	ARMENMTN	345 1	-0.11477 -0.10144	-520.7 -616.0	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345 1	NA		
			Open 95593 CHERYFLT	345	200769	HOMER CY	345 1	0.00933 -0.02056	-45.4 -64.7	
			Open 95593 CHERYFLT	345	95594	CHERYWIND	34.5 1	NA		
4	943.8	3279.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230 1	322.5 383.0 0.06410	0.05248 263.9 313.5	
			C:SER:HC-WC_30&W-F_171				1712			
			Open 135277 FALCONER	115	200579	WARREN	115 1	0.04698 0.00539	-7.1 -2.0	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345 1	NA		
			Open 130757 WATRC345	345	135249	ARMENMTN	345 1	-0.11394 -0.10144	-520.7 -616.5	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345 1	NA		
			Open 95593 CHERYFLT	345	200769	HOMER CY	345 1	0.00956 -0.02056	-45.4 -64.8	
			Open 95593 CHERYFLT	345	95594	CHERYWIND	34.5 1	NA		
5	964.5	3288.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230 1	-321.2 -383.0 -0.06411	-0.05248 -261.5 -312.1	
			C:130757 WATRC345	345	135249	ARMENMTN	345 1	281		
			Open 130757 WATRC345	345	135249	ARMENMTN	345 1	0.11461 -0.10144	-520.7 -618.6	
6	977.0	3294.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230 1	-320.4 -383.0 -0.06406	-0.05248 -261.5 -312.8	
			C:SER:HCWC/NWES				1718			
			Open 130836 N.WAV115	115	200676	E.SAYRE	115 1	0.00558 -0.02304	74.1 51.5	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345 1	NA		
			Open 130757 WATRC345	345	135249	ARMENMTN	345 1	0.11477 -0.10144	-520.7 -619.8	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345 1	NA		
			Open 95593 CHERYFLT	345	200769	HOMER CY	345 1	-0.00933 -0.02056	-45.4 -65.5	
			Open 95593 CHERYFLT	345	95594	CHERYWIND	34.5 1	NA		
7	982.1	3297.1	L: 130763 HILSD230	230	131154	STONY RIDGE	230 1	-320.0 -383.0 -0.06410	-0.05248 -261.5 -313.0	
			C:SER:HC-WC_30&W-F_171				1712			
			Open 135277 FALCONER	115	200579	WARREN	115 1	-0.04698 0.00539	-7.1 -1.8	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345 1	NA		

				Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11394	-0.10144	-520.7	-620.4
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00956	-0.02056	-45.4	-65.6
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
8	1009.1	3309.8	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	320.1 383.0 0.06236		0.05248	263.9	316.9
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1					
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11461	0.08622	489.7	576.7
9	1031.5	3320.4	L:	130750 COOPC345	345	130753	FRASR345	345	1	-974.4 -1207.0 -0.22551				
				Base Case										
10	1045.8	3327.1	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	318.4 383.0 0.06175		0.05248	263.9	318.8
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1	1458				
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11461	-0.08088	-475.3	-559.9
11	1048.5	3328.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-317.6 -383.0 -0.06236		-0.05248	-261.5	-316.5
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1					
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.11461	0.08622	489.7	580.1
12	1085.6	3345.8	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-316.0 -383.0 -0.06175		-0.05248	-261.5	-318.5
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1	1458				
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.11461	-0.08088	-475.3	-563.1
13	1149.4	3375.9	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	329.7 383.0 0.04640		0.05248	263.9	324.3
			C:	BUS:WATERCURE_345										1743
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.04479	-0.10144	-520.7	-637.3
				Open 130757 WATRC345	345	130768	WATRC230	230	1		0.15980	-0.06646	265.3	188.9
				Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.03638	0.00000	-0.0	-0.0
14	1202.4	3400.8	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-327.2 -383.0 -0.04640		-0.05248	-261.5	-324.6
			C:	BUS:WATERCURE_345										1743
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.04479	-0.10144	-520.7	-642.7
				Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.15980	-0.06646	265.3	185.4
				Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.03638	0.00000	-0.0	-0.0
15	1386.2	3487.3	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.7 383.0 0.05650		0.05248	263.9	336.7
			C:	130755 OAKDL345	345	131128	LAPEER	345	1	277				
				Open 130755 OAKDL345	345	131128	LAPEER	345	1		-0.06156	-0.06530	-661.7	-752.2
16	1429.7	3507.8	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-302.2 -383.0 -0.05650		-0.05248	-261.5	-336.5
			C:	130755 OAKDL345	345	131128	LAPEER	345	1	277				
				Open 130755 OAKDL345	345	131128	LAPEER	345	1		0.06156	-0.06530	-661.7	-755.0
17	1436.0	3510.8	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.4 383.0 0.05475		0.05248	263.9	339.3
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1	462				
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		-0.05429	-0.04175	-744.9	-804.8
18	1477.1	3530.1	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1427.7 -1725.0 -0.20126		-0.15370	-1085.6	-1312.6
			C:	126294 PLTVLLEY	345	137451	LEEDS 3	345	1	183				
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1		0.30372	-0.15659	-1126.4	-1357.7
19	1480.9	3531.9	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-301.9 -383.0 -0.05475		-0.05248	-261.5	-339.2
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1	462				
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		0.05429	-0.04175	-744.9	-806.7
20	1551.7	3565.3	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1274.1 -1703.0 -0.27642		-0.22551	-974.4	-1324.3
			C:	130750 COOPC345	345	147833	MARCY T1	345	1	263				
				Open 130750 COOPC345	345	147833	MARCY T1	345	1		0.41671	-0.12217	-719.1	-908.7
21	1568.9	3573.3	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	291.8 383.0 0.05814		0.05248	263.9	346.3
			C:	130774 BATH 115	115	131347	HOWARD	115	1	299				
				Open 130774 BATH 115	115	131347	HOWARD	115	1		-0.28676	-0.01974	-97.1	-128.0
22	1596.5	3586.3	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1085.6 -1331.0 -0.15370				
				Base Case										
23	1611.2	3593.2	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-289.3 -383.0 -0.05814		-0.05248	-261.5	-346.0
			C:	130774 BATH 115	115	131347	HOWARD	115	1	299				
				Open 130774 BATH 115	115	131347	HOWARD	115	1		0.28676	-0.01974	-97.1	-128.9
24	1624.0	3599.3	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	289.0 383.0 0.05786		0.05248	263.9	349.2
			C:	131342 BENET115	115	131347	HOWARD	115	1	472				
				Open 131342 BENET115	115	131347	HOWARD	115	1		0.28676	0.01875	87.5	118.0
25	1654.8	3613.8	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1398.6 -1725.0 -0.19724		-0.15370	-1085.6	-1340.0
			C:	126294 PLTVLLEY	345	137455	ATHENS	345	1	185				
				Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.29765	-0.14627	-1051.5	-1293.6
26	1666.5	3619.3	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-286.6 -383.0 -0.05786		-0.05248	-261.5	-348.9
			C:	131342 BENET115	115	131347	HOWARD	115	1	472				
				Open 131342 BENET115	115	131347	HOWARD	115	1		-0.28676	0.01875	87.5	118.8
30	1737.8	3652.8	L:	130750 COOPC345	345	146754	MDTN TAP	345	1	1297.9 1793.0 0.28492		0.18036	843.9	1157.3
			C:	125001 ROCK TAV	345	130750	COOPC345	345	2	69				

Ignore this downstream limitation

31	1739.1	3653.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.03152	-0.62491	-0.16732	-726.5	-1017.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1				0.02256		83.6	122.8
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04916	0.18214	704.6	1021.4
33	1755.5	3661.2	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.5	-402.0	-0.03162	-0.00861	-236.5	-251.6	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.13877	-0.12067	-427.2	-639.0
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.01297	-0.03771	-400.8	-467.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03885	-0.15946	-927.1	-1207.0
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.05287	0.00642	260.5	271.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00510	-0.15055	-826.5	-1090.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01886	0.00000	3.8	3.8
37	1813.1	3688.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.6	-430.0	-0.06033				
			Base Case											
40	1816.5	3689.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.1	-1725.0	-0.19153	-0.14627	-1051.5	-1317.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.28903	-0.15659	-1126.4	-1410.8
50	1898.0	3728.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.5	-1725.0	-0.19044	-0.14627	-1051.5	-1329.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.28739	-0.15370	-1085.6	-1377.4
57	1910.6	3734.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.5	-1331.0	-0.14627				
			Base Case											
80	1972.9	3763.5	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1244.5	-1793.0	-0.27803	-0.16732	-726.5	-1056.6	
			C:130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61383	0.18036	843.9	1199.7
94	2042.0	3796.0	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.7	-1912.0	-0.21561	-0.14417	-983.2	-1277.6	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.11712	-0.12067	-427.2	-673.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64409	-0.03771	-400.8	-477.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17080	-0.15946	-927.1	-1252.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.04088	0.00642	260.5	273.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.04010	-0.15055	-826.5	-1133.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12264	0.00000	3.8	3.8
96	2047.8	3798.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1226.4	-1793.0	-0.27667	-0.16732	-726.5	-1069.1	
			C:SER:CMT34&MTR34				1703							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.56506	0.18036	843.9	1213.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.05249	-0.14165	-440.3	-730.4
121	2098.2	3822.5	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.9	-1345.0	-0.17974	-0.12217	-719.1	-975.5	
			C:130750 COOPC345	345	130753 FRASR345	345	1							
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25527	-0.22551	-974.4	-1447.6
158	2141.8	3843.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1234.6	1724.0	0.22852	0.15056	837.8	1160.3	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.23695	-0.12067	-427.2	-685.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14231	-0.03771	-400.8	-481.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.34308	-0.15946	-927.1	-1268.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08889	0.00642	260.5	274.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06737	-0.15055	-826.5	-1148.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19736	0.00000	3.8	3.8
173	2159.8	3851.5	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.2	1685.0	0.25084	0.18214	704.6	1098.0	
			C:130754 KINTI345	345	149000 ROCH 345	345	1							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53277	0.12894	823.3	1101.8
199	2180.7	3861.3	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15055	-826.5	-1154.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
200	2180.7	3861.3	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99				1726							
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5

Invalid contingency  
 New Scotland will have breaker and a half configuration  
 Also NGRID plans to add 4th tx. bank to overcome this limitation

				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00683	-0.15055	-826.5	-1154.8		
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8		
219	2210.4	3875.3	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1057.6	-1703.0	-0.29198	-0.22551	-974.4	-1472.9	
			C:	130753 FRASR345	345	147831 GILB 345	345	1					271		
				Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.36545	0.18188	227.7	629.7
287	2237.4	3888.0	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1	-101.3	-173.0	-0.03205	-0.02295	-66.1	-117.4	
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1					1325		
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04999	0.18214	704.6	1112.1
1059	2268.5	3902.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1	263.9	383.0	0.05248				
				Base Case											
1965	2295.9	3915.5	L:	131122 WTHRS230	230	134750 DAIRY230	230	1	308.6	430.0	0.05287				
				Base Case											
2097	2309.3	3921.9	L:	130757 WATRC345	345	135249 ARMENMTN	345	1	-520.7	-755.0	-0.10144				
				Base Case											
2806	2315.4	3924.7	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1	-261.5	-383.0	-0.05248				
				Base Case											
3594	2353.5	3942.6	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1121.5	-1703.0	-0.24708	-0.22551	-974.4	-1505.1	
			C:	137451 LEEDS 3	345	147831 GILB 345	345	1					1086		
				Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.14962	-0.14417	-983.2	-1322.5
3596	2354.1	3942.9	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-373.6	-540.0	-0.07067	-0.06033	-320.6	-462.6	
			C:	130757 WATRC345	345	135249 ARMENMTN	345	1					281		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10185	-0.10144	-520.7	-759.5
3604	2363.3	3947.3	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-371.8	-540.0	-0.07119	-0.06033	-320.6	-463.2	
			C:	SER:HCWC/NWES									1718		
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02616	-0.02304	74.1	19.6
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					NA		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10260	-0.10144	-520.7	-760.5
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1					NA		
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00755	-0.02056	-45.4	-94.0
				Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1					NA		
3611	2366.7	3948.9	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-372.8	-540.0	-0.07063	-0.06033	-320.6	-463.4	
			C:	SER:HC-WC_30&W-F_171									1712		
				Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03199	0.00539	-7.1	5.7
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					NA		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10139	-0.10144	-520.7	-760.8
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1					NA		
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00771	-0.02056	-45.4	-94.1
				Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1					NA		
3637	2390.2	3959.9	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-367.1	-540.0	-0.07235	-0.06033	-320.6	-464.8	
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1					1325		
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06595	0.18214	704.6	1140.0
3641	2395.6	3962.5	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.3	-1725.0	-0.18689	-0.15370	-1085.6	-1453.8	
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1					63		
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.23309	-0.14238	-822.3	-1163.3
3643	2400.0	3964.5	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	324.1	478.0	0.06411	0.05248	264.5	390.4	
			C:	130757 WATRC345	345	135249 ARMENMTN	345	1					281		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11461	-0.10144	-520.7	-764.2
3647	2413.5	3970.9	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.4	478.0	0.06406	0.05248	264.5	391.1	
			C:	SER:HCWC/NWES									1718		
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00558	-0.02304	74.1	18.4
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					NA		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11477	-0.10144	-520.7	-765.6
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1					NA		
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00933	-0.02056	-45.4	-95.0
				Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1					NA		
3654	2417.8	3972.9	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.0	478.0	0.06410	0.05248	264.5	391.4	
			C:	SER:HC-WC_30&W-F_171									1712		
				Open 135277 FALCONER	115	200579 WARREN	115	1				0.04698	0.00539	-7.1	5.9
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					NA		
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11394	-0.10144	-520.7	-766.0
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1					NA		
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00956	-0.02056	-45.4	-95.1
				Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1					NA		
3666	2452.6	3989.3	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-370.5	-540.0	-0.06912	-0.06033	-320.6	-468.6	
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1					35		



3672	2469.1	3997.1	L:	Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1							-0.10185	0.08622	489.7	701.2	
				Interface 73 MarcySouthS	1693.5	2552.0	0.34768								
				Base Case											
3673	2470.3	3997.6	L:	130757 WATRC345 345 130768 WATRC230 230 1	455.4	600.0	0.05852				-0.06646		265.3	101.1	
			C:	130755 OAKDL345 345 130757 WATRC345 345 1 274											
3677	2493.4	4008.5	L:	130755 OAKDL345 345 130757 WATRC345 345 1							-0.74437	-0.16791	-255.4	-670.2	
			L:	130764 MEYER230 230 134750 DAIRY230 230 1	-369.0	-540.0	-0.06857				-0.06033		-320.6	-471.0	
			C:	95593 CHERYFLT 345 200769 HOMER CY 345 1 1458											
3682	2503.5	4013.3	L:	Open 95593 CHERYFLT 345 200769 HOMER CY 345 1							0.10185	-0.08088	-475.3	-677.0	
			L:	95976 STONYCRK 230 131122 WTHRS230 230 1	297.9	430.0	0.05277								
				Base Case											
3686	2513.1	4017.8	L:	130750 COOPC345 345 130753 FRASR345 345 1	-1091.3	-1703.0	-0.24340				-0.22551		-974.4	-1541.1	
			C:	BUS:N.S._99 1726											
				Open 137453 N.SCOT99 345 137728 PRINCETW 345 1							0.03126	-0.12067	-427.2	-730.5	
				Open 137453 N.SCOT99 345 147831 GILB 345 345 1							0.12269	-0.03771	-400.8	-495.5	
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 1							0.05276	-0.15946	-927.1	-1327.8	
				Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1							0.00201	0.00642	260.5	276.7	
				Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2							0.00725	-0.15055	-826.5	-1204.8	
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1							-0.00445	0.00000	3.8	3.8	
3692	2524.1	4023.0	L:	130751 CNDGUA_T 230 130761 AVOCA230 230 1	320.6	478.0	0.06236				0.05248		264.5	396.9	
			C:	95593 CHERYFLT 345 135249 ARMENMTN 345 1 35											
				Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1							0.11461	0.08622	489.7	707.4	
3708	2575.8	4047.3	L:	130751 CNDGUA_T 230 130761 AVOCA230 230 1	318.9	478.0	0.06175				0.05248		264.5	399.6	
			C:	95593 CHERYFLT 345 200769 HOMER CY 345 1 1458											
				Open 95593 CHERYFLT 345 200769 HOMER CY 345 1							-0.11461	-0.08088	-475.3	-683.7	
3711	2586.0	4052.1	L:	130764 MEYER230 230 134750 DAIRY230 230 1	-365.7	-540.0	-0.06740				-0.06033		-320.6	-476.6	
			C:	130754 KINTI345 345 149000 ROCH 345 345 1 273											
				Open 130754 KINTI345 345 149000 ROCH 345 345 1							-0.05478	0.12894	823.3	1156.8	
3719	2622.4	4069.2	L:	146758 CHESTER 138 146771 SHOEM138 138 1	-195.8	-317.0	-0.04620				-0.02088		-117.2	-171.9	
			C:	125001 ROCK TAV 345 146754 MDTN TAP 345 1 70											
				Open 125001 ROCK TAV 345 146754 MDTN TAP 345 1							0.17873	-0.14165	-440.3	-811.7	
3727	2643.3	4079.1	L:	126294 PLTVLLEY 345 137451 LEEDS 3 345 2	-1203.6	-1725.0	-0.19724				-0.15370		-1085.6	-1491.9	
			C:	137451 LEEDS 3 345 137455 ATHENS 345 1 1085											
				Open 137451 LEEDS 3 345 137455 ATHENS 345 1							-0.29765	0.14627	396.5	783.1	
3730	2652.8	4083.5	L:	130754 KINTI345 345 149000 ROCH 345 345 1	1131.6	1685.0	0.20863				0.12894		823.3	1165.4	
			C:	147834 NIAG 345 345 149000 ROCH 345 345 1 1325											
				Open 147834 NIAG 345 345 149000 ROCH 345 345 1							0.43748	0.18214	704.6	1187.8	
3741	2690.9	4101.5	L:	131018 LOUNS115 115 131850 CNYOG115 115 1	21.5	143.0	0.04517				0.02960		-2.2	77.4	
			C:	130755 OAKDL345 345 130757 WATRC345 345 1 274											
				Open 130755 OAKDL345 345 130757 WATRC345 345 1							-0.09271	-0.16791	-255.4	-707.3	
3742	2692.9	4102.4	L:	130750 COOPC345 345 130753 FRASR345 345 1	-1051.5	-1703.0	-0.24194				-0.22551		-974.4	-1581.7	
			C:	BUS:N.S._77 1725											
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1							0.04149	-0.16088	-664.2	-1097.5	
				Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1							0.02355	0.00564	245.1	260.3	
				Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01 NA											
				Open 137200 EDIC 345 137452 N.SCOT77 345 1							-0.06564	0.15056	837.8	1243.3	
				Open 137450 ALPS345 345 137452 N.SCOT77 345 1							-0.00083	-0.00158	169.4	165.2	
				Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1							0.00000	-0.15035	-827.5	-1232.3	
				Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2							0.00064	0.00000	-250.0	-250.0	
3748	2737.7	4123.5	L:	130848 S.OWE115 115 131850 CNYOG115 115 1	-19.3	-143.0	-0.04517				-0.02960		4.3	-76.7	
			C:	130755 OAKDL345 345 130757 WATRC345 345 1 274											
				Open 130755 OAKDL345 345 130757 WATRC345 345 1							0.09271	-0.16791	-255.4	-715.1	
3750	2744.1	4126.5	L:	137451 LEEDS 3 345 147831 GILB 345 345 1	-1333.0	-1912.0	-0.21098				-0.14417		-983.2	-1378.8	
			C:	BUS:N.S._77 1725											
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1							0.20828	-0.16088	-664.2	-1105.7	
				Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1							0.17586	0.00564	245.1	260.6	
				Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01 NA											
				Open 137200 EDIC 345 137452 N.SCOT77 345 1							-0.22922	0.15056	837.8	1251.0	
				Open 137450 ALPS345 345 137452 N.SCOT77 345 1							-0.13646	-0.00158	169.4	165.1	
				Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1							0.00000	-0.15035	-827.5	-1240.0	
				Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2							0.15776	0.00000	-250.0	-250.0	
3751	2746.5	4127.6	L:	137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1117.2	-1724.0	-0.22095				-0.15055		-826.5	-1240.0	
			C:	137452 N.SCOT77 345 137453 N.SCOT99 345 1 1087											
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1							0.43762	-0.16088	-664.2	-1106.1	
3754	2752.6	4130.5	L:	130750 COOPC345 345 130753 FRASR345 345 1	-1047.4	-1703.0	-0.23816				-0.22551		-974.4	-1595.1	

Invalid contingency: Zero impedance jumper

			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
3757	2761.1	4134.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1							
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
3761	2801.9	4153.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1							
			C:BUS:WATERCURE_345					1743						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	130768 WATRC230	230	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1							
3763	2806.1	4155.7	L: Interface	73	MarcySouthS									
			C:BUS:N.S._99					1726						
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1							
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
3764	2821.9	4163.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1							
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
3765	2828.3	4166.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1							
			C:SER:HCWC/NWES					1718						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
3766	2830.4	4167.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1							
			C:125001 ROCK TAV	345	146754 MDIN TAP	345	1	70						
			Open 125001 ROCK TAV	345	146754 MDIN TAP	345	1							
3767	2836.2	4169.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1							
			C:SER:HC-WC_30&W-F_171					1712						
			Open 135277 FALCONER	115	200579 WARREN	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
3768	2841.3	4172.2	L: 130750 COOPC345	345	130753 FRASR345	345	1							
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1							
3769	2850.0	4176.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1							
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							
3770	2855.0	4178.7	L: 130750 COOPC345	345	130753 FRASR345	345	1							
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2							
3771	2873.2	4187.3	L: 130750 COOPC345	345	130753 FRASR345	345	1							
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1							
3773	2885.6	4193.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1							
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2							
3774	2903.4	4201.5	*L: 130750 COOPC345	345	130753 FRASR345	345	1							
			C:137200 EDIC	345	147833 MARCY T1	345	1	1029						
			Open 137200 EDIC	345	147833 MARCY T1	345	1							
3777	2934.0	4215.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2							
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083						
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2							
3778	2944.1	4220.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1							
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
3779	2945.0	4221.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2							

Loss of N.Scotland-Leeds #3 overloads existing Leeds-N.Scott77 line

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, AUG 29 2011 15:32  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3796  
 First violation - 697.6 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3796 violations

Interface-1 Interface 7 CE+FRAS-GILB Init.Flow= 3062.54 TDF= 0.6526

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=		
			C: Contingency description	Flow	Rating	LODF	Init	Final		
1	697.6	3517.8	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1517.4	-1724.0	-0.29621	-0.15055	-826.5	-931.5	
			C:BUS:N.S._77 1725							Invalid contingency
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16088	-664.2	-776.5	
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00564	245.1	249.1	
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA						
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.15056	837.8	942.9	
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00158	169.4	168.3	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15035	-827.5	-932.4	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0	-250.0	
2	926.2	3666.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.6	383.0	0.06411	0.05248	263.9	312.6	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.10144	-520.7	-614.7	
3	938.6	3675.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.9	383.0	0.06406	0.05248	263.9	313.2	
			C:SER:HCWC/NWES 1718							
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.02304	74.1	52.4	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.10144	-520.7	-616.0	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA						
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	-0.02056	-45.4	-64.7	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA						
4	943.8	3678.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.06410	0.05248	263.9	313.5	
			C:SER:HC-WC_30&W-F_171 1712							
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	0.00539	-7.1	-2.0	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.10144	-520.7	-616.5	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA						
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	-0.02056	-45.4	-64.8	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA						
5	964.5	3692.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-321.2	-383.0	-0.06411	-0.05248	-261.5	-312.1	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11461	-0.10144	-520.7	-618.6	
6	977.0	3700.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.4	-383.0	-0.06406	-0.05248	-261.5	-312.8	
			C:SER:HCWC/NWES 1718							
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00558	-0.02304	74.1	51.5	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11477	-0.10144	-520.7	-619.8	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA						
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			-0.00933	-0.02056	-45.4	-65.5	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA						
7	982.1	3703.4	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.0	-383.0	-0.06410	-0.05248	-261.5	-313.0	
			C:SER:HC-WC_30&W-F_171 1712							
			Open 135277 FALCONER 115 200579 WARREN 115 1			-0.04698	0.00539	-7.1	-1.8	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA						

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				Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.11394	-0.10144	-520.7	-620.4	
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00956	-0.02056	-45.4	-65.6	
				Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA						
8	1009.1	3721.1	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		320.1	383.0	0.06236	0.05248	263.9	316.9
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.11461	0.08622	489.7	576.7	
9	1031.5	3735.6	L:	130750 COOPC345	345	130753 FRASR345	345	1		-974.4	-1207.0	-0.22551			
				Base Case											
10	1045.8	3745.0	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		318.4	383.0	0.06175	0.05248	263.9	318.8
			C:	95593 CHERYFLT	345	200769 HOMER CY	345	1	1458						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.11461	-0.08088	-475.3	-559.9	
11	1048.5	3746.8	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-317.6	-383.0	-0.06236	-0.05248	-261.5	-316.5
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.11461	0.08622	489.7	580.1	
12	1085.6	3771.0	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-316.0	-383.0	-0.06175	-0.05248	-261.5	-318.5
			C:	95593 CHERYFLT	345	200769 HOMER CY	345	1	1458						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.11461	-0.08088	-475.3	-563.1	
13	1149.4	3812.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		329.7	383.0	0.04640	0.05248	263.9	324.3
			C:	BUS:WATERCURE_345 1743											
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.04479	-0.10144	-520.7	-637.3	
				Open 130757 WATRC345	345	130768 WATRC230	230	1			0.15980	-0.06646	265.3	188.9	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.03638	0.00000	-0.0	-0.0	
14	1202.4	3847.2	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-327.2	-383.0	-0.04640	-0.05248	-261.5	-324.6
			C:	BUS:WATERCURE_345 1743											
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.04479	-0.10144	-520.7	-642.7	
				Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.15980	-0.06646	265.3	185.4	
				Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.03638	0.00000	-0.0	-0.0	
15	1386.2	3967.1	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		304.7	383.0	0.05650	0.05248	263.9	336.7
			C:	130755 OAKDL345	345	131128 LAPEER	345	1	277						
				Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.06156	-0.06530	-661.7	-752.2	
16	1429.7	3995.5	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-302.2	-383.0	-0.05650	-0.05248	-261.5	-336.5
			C:	130755 OAKDL345	345	131128 LAPEER	345	1	277						
				Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.06156	-0.06530	-661.7	-755.0	
17	1436.0	3999.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		304.4	383.0	0.05475	0.05248	263.9	339.3
			C:	131128 LAPEER	345	136153 LAFAYTTE	345	1	462						
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.05429	-0.04175	-744.9	-804.8	
18	1477.1	4026.4	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1427.7	-1725.0	-0.20126	-0.15370	-1085.6	-1312.6
			C:	126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183						
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.30372	-0.15659	-1126.4	-1357.7	
19	1480.9	4028.9	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-301.9	-383.0	-0.05475	-0.05248	-261.5	-339.2
			C:	131128 LAPEER	345	136153 LAFAYTTE	345	1	462						
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			0.05429	-0.04175	-744.9	-806.7	
20	1551.7	4075.2	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1274.1	-1703.0	-0.27642	-0.22551	-974.4	-1324.3
			C:	130750 COOPC345	345	147833 MARCY T1	345	1	263						
				Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.41671	-0.12217	-719.1	-908.7	
21	1568.9	4086.4	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		291.8	383.0	0.05814	0.05248	263.9	346.3
			C:	130774 BATH 115	115	131347 HOWARD	115	1	299						
				Open 130774 BATH 115	115	131347 HOWARD	115	1			-0.28676	-0.01974	-97.1	-128.0	
22	1596.5	4104.4	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1085.6	-1331.0	-0.15370			
				Base Case											
23	1611.2	4114.0	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-289.3	-383.0	-0.05814	-0.05248	-261.5	-346.0
			C:	130774 BATH 115	115	131347 HOWARD	115	1	299						
				Open 130774 BATH 115	115	131347 HOWARD	115	1			0.28676	-0.01974	-97.1	-128.9	
24	1624.0	4122.3	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		289.0	383.0	0.05786	0.05248	263.9	349.2
			C:	131342 BENET115	115	131347 HOWARD	115	1	472						
				Open 131342 BENET115	115	131347 HOWARD	115	1			0.28676	0.01875	87.5	118.0	
25	1654.8	4142.4	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1398.6	-1725.0	-0.19724	-0.15370	-1085.6	-1340.0
			C:	126294 PLTVLLEY	345	137455 ATHENS	345	1	185						
				Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.29765	-0.14627	-1051.5	-1293.6	
26	1666.5	4150.1	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-286.6	-383.0	-0.05786	-0.05248	-261.5	-348.9
			C:	131342 BENET115	115	131347 HOWARD	115	1	472						
				Open 131342 BENET115	115	131347 HOWARD	115	1			-0.28676	0.01875	87.5	118.8	
30	1737.8	4196.6	L:	130750 COOPC345	345	146754 MDTN TAP	345	1		1297.9	1793.0	0.28492	0.18036	843.9	1157.3
			C:	125001 ROCK TAV	345	130750 COOPC345	345	2	69						

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			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62491	-0.16732	-726.5	-1017.2
31	1739.1	4197.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.03152		0.02256	83.6	122.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04916	0.18214	704.6	1021.4
33	1755.5	4208.1	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.5	-402.0	-0.03162		-0.00861	-236.5	-251.6
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.13877	-0.12067	-427.2	-639.0
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.01297	-0.03771	-400.8	-467.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03885	-0.15946	-927.1	-1207.0
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.05287	0.00642	260.5	271.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00510	-0.15055	-826.5	-1090.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01886	0.00000	3.8	3.8
37	1813.1	4245.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.6	-430.0	-0.06033				
			Base Case											
40	1816.5	4247.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.1	-1725.0	-0.19153		-0.14627	-1051.5	-1317.2
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1						183	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.28903	-0.15659	-1126.4	-1410.8
50	1898.0	4301.2	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.5	-1725.0	-0.19044		-0.14627	-1051.5	-1329.2
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2						184	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.28739	-0.15370	-1085.6	-1377.4
57	1910.6	4309.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.5	-1331.0	-0.14627				
			Base Case											
80	1972.9	4350.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1244.5	-1793.0	-0.27803		-0.16732	-726.5	-1056.6
			C:130750 COOPC345	345	146754 MDTN TAP	345	1						262	
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61383	0.18036	843.9	1199.7
94	2042.0	4395.1	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.7	-1912.0	-0.21561		-0.14417	-983.2	-1277.6
			C:BUS:N.S._99											1726
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.11712	-0.12067	-427.2	-673.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64409	-0.03771	-400.8	-477.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17080	-0.15946	-927.1	-1252.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.04088	0.00642	260.5	273.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.04010	-0.15055	-826.5	-1133.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12264	0.00000	3.8	3.8
96	2047.8	4398.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1226.4	-1793.0	-0.27667		-0.16732	-726.5	-1069.1
			C:SER:CMT34&MTR34											1703
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.56506	0.18036	843.9	1213.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.05249	-0.14165	-440.3	-730.4
121	2098.2	4431.8	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.9	-1345.0	-0.17974		-0.12217	-719.1	-975.5
			C:130750 COOPC345	345	130753 FRASR345	345	1							259
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25527	-0.22551	-974.4	-1447.6
158	2141.8	4460.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1234.6	1724.0	0.22852		0.15056	837.8	1160.3
			C:BUS:N.S._99											1726
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.23695	-0.12067	-427.2	-685.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14231	-0.03771	-400.8	-481.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.34308	-0.15946	-927.1	-1268.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08889	0.00642	260.5	274.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06737	-0.15055	-826.5	-1148.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19736	0.00000	3.8	3.8
173	2159.8	4472.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.2	1685.0	0.25084		0.18214	704.6	1098.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1							273
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53277	0.12894	823.3	1101.8
199	2180.7	4485.6	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.2	560.0	0.05448		0.01435	256.8	288.1
			C:BUS:N.S._99											1726
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15055	-826.5	-1154.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
200	2180.7	4485.6	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.2	560.0	0.05448		0.01435	256.8	288.1
			C:BUS:N.S._99											1726
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5

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			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00683	-0.15055	-826.5	-1154.8	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8	
219	2210.4	4505.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1057.6	-1703.0	-0.29198	-0.22551	-974.4	-1472.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	271					
			Open 130753 FRASR345	345	147831 GILB 345	345	1		-0.36545	0.18188	227.7	629.7	
287	2237.4	4522.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-101.3	-173.0	-0.03205	-0.02295	-66.1	-117.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04999	0.18214	704.6	1112.1	
1059	2268.5	4542.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	263.9	383.0	0.05248			
			Base Case										
1965	2295.9	4560.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	308.6	430.0	0.05287			
			Base Case										
2097	2309.3	4569.6	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-520.7	-755.0	-0.10144			
			Base Case										
2806	2315.4	4573.5	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-261.5	-383.0	-0.05248			
			Base Case										
3594	2353.5	4598.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1121.5	-1703.0	-0.24708	-0.22551	-974.4	-1505.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1		0.14962	-0.14417	-983.2	-1322.5	
3596	2354.1	4598.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-373.6	-540.0	-0.07067	-0.06033	-320.6	-462.6
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10185	-0.10144	-520.7	-759.5	
3604	2363.3	4604.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-371.8	-540.0	-0.07119	-0.06033	-320.6	-463.2
			C:SER:HCWC/NWES					1718					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02616	-0.02304	74.1	19.6	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10260	-0.10144	-520.7	-760.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00755	-0.02056	-45.4	-94.0	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3611	2366.7	4607.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-372.8	-540.0	-0.07063	-0.06033	-320.6	-463.4
			C:SER:HC-WC_30&W-F_171					1712					
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.03199	0.00539	-7.1	5.7	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10139	-0.10144	-520.7	-760.8	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00771	-0.02056	-45.4	-94.1	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3637	2390.2	4622.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-367.1	-540.0	-0.07235	-0.06033	-320.6	-464.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.06595	0.18214	704.6	1140.0	
3641	2395.6	4625.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.3	-1725.0	-0.18689	-0.15370	-1085.6	-1453.8
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.23309	-0.14238	-822.3	-1163.3	
3643	2400.0	4628.7	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	324.1	478.0	0.06411	0.05248	264.5	390.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11461	-0.10144	-520.7	-764.2	
3647	2413.5	4637.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.4	478.0	0.06406	0.05248	264.5	391.1
			C:SER:HCWC/NWES					1718					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.00558	-0.02304	74.1	18.4	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11477	-0.10144	-520.7	-765.6	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00933	-0.02056	-45.4	-95.0	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3654	2417.8	4640.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.0	478.0	0.06410	0.05248	264.5	391.4
			C:SER:HC-WC_30&W-F_171					1712					
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.04698	0.00539	-7.1	5.9	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11394	-0.10144	-520.7	-766.0	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00956	-0.02056	-45.4	-95.1	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3666	2452.6	4663.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-370.5	-540.0	-0.06912	-0.06033	-320.6	-468.6
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					

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3672	2469.1	4673.8	L: Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	-0.10185	0.08622	489.7	701.2		
			Interface 73 MarcySouthS						1693.5	2552.0	0.34768			
			Base Case											
3673	2470.3	4674.6	L: 130757 WATRC345	345	130768	WATRC230	230	1	455.4	600.0	0.05852	-0.06646	265.3	101.1
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1	-0.74437	-0.16791	-255.4	-670.2		
3677	2493.4	4689.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-369.0	-540.0	-0.06857	-0.06033	-320.6	-471.0
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1	0.10185	-0.08088	-475.3	-677.0		
3682	2503.5	4696.3	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	297.9	430.0	0.05277			
			Base Case											
3686	2513.1	4702.5	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1091.3	-1703.0	-0.24340	-0.22551	-974.4	-1541.1
			C:BUS:N.S._99					1726						
			Open 137453 N.SCOT99	345	137728	PRINCETW	345	1	0.03126	-0.12067	-427.2	-730.5		
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1	0.12269	-0.03771	-400.8	-495.5		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1	0.05276	-0.15946	-927.1	-1327.8		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1	0.00201	0.00642	260.5	276.7		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2	0.00725	-0.15055	-826.5	-1204.8		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1	-0.00445	0.00000	3.8	3.8		
3692	2524.1	4709.7	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	320.6	478.0	0.06236	0.05248	264.5	396.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	0.11461	0.08622	489.7	707.4		
3708	2575.8	4743.5	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	318.9	478.0	0.06175	0.05248	264.5	399.6
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1458					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1	-0.11461	-0.08088	-475.3	-683.7		
3711	2586.0	4750.1	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-365.7	-540.0	-0.06740	-0.06033	-320.6	-476.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1	-0.05478	0.12894	823.3	1156.8		
3719	2622.4	4773.9	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-195.8	-317.0	-0.04620	-0.02088	-117.2	-171.9
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	70					
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1	0.17873	-0.14165	-440.3	-811.7		
3727	2643.3	4787.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1203.6	-1725.0	-0.19724	-0.15370	-1085.6	-1491.9
			C:137451 LEEDS 3	345	137455	ATHENS	345	1	1085					
			Open 137451 LEEDS 3	345	137455	ATHENS	345	1	-0.29765	0.14627	396.5	783.1		
3730	2652.8	4793.7	L: 130754 KINTI345	345	149000	ROCH 345	345	1	1131.6	1685.0	0.20863	0.12894	823.3	1165.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1	0.43748	0.18214	704.6	1187.8		
3741	2690.9	4818.6	L: 131018 LOUNS115	115	131850	CNYOG115	115	1	21.5	143.0	0.04517	0.02960	-2.2	77.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1	-0.09271	-0.16791	-255.4	-707.3		
3742	2692.9	4819.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1051.5	-1703.0	-0.24194	-0.22551	-974.4	-1581.7
			C:BUS:N.S._77					1725						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1	0.04149	-0.16088	-664.2	-1097.5		
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1	0.02355	0.00564	245.1	260.3		
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452	N.SCOT77	345	1	-0.06564	0.15056	837.8	1243.3		
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1	-0.00083	-0.00158	169.4	165.2		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1	0.00000	-0.15035	-827.5	-1232.3		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2	0.00064	0.00000	-250.0	-250.0		
3748	2737.7	4849.1	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-19.3	-143.0	-0.04517	-0.02960	4.3	-76.7
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1	0.09271	-0.16791	-255.4	-715.1		
3750	2744.1	4853.3	L: 137451 LEEDS 3	345	147831	GILB 345	345	1	-1333.0	-1912.0	-0.21098	-0.14417	-983.2	-1378.8
			C:BUS:N.S._77					1725						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1	0.20828	-0.16088	-664.2	-1105.7		
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1	0.17586	0.00564	245.1	260.6		
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452	N.SCOT77	345	1	-0.22922	0.15056	837.8	1251.0		
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1	-0.13646	-0.00158	169.4	165.1		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1	0.00000	-0.15035	-827.5	-1240.0		
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2	0.15776	0.00000	-250.0	-250.0		
3751	2746.5	4854.8	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1117.2	-1724.0	-0.22095	-0.15055	-826.5	-1240.0
			C:137452 N.SCOT77	345	137453	N.SCOT99	345	1	1087					
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1	0.43762	-0.16088	-664.2	-1106.1		
3754	2752.6	4858.8	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1047.4	-1703.0	-0.23816	-0.22551	-974.4	-1595.1

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				C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63							
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1					0.08883	-0.14238	-822.3	-1214.2
3757	2761.1	4864.4	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1		-1233.9	-1725.0	-0.17785		-0.14627	-1051.5	-1455.4
				C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63							
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1					0.22182	-0.14238	-822.3	-1215.4
3761	2801.9	4891.0	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-378.0	-540.0	-0.05781		-0.06033	-320.6	-489.7
				C:BUS:WATERCURE_345					1743							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.05113	-0.10144	-520.7	-805.0
				Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.11608	-0.06646	265.3	79.1
				Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.04425	0.00000	-0.0	-0.0
3763	2806.1	4893.7	L:	Interface 73 MarcySouthS						1945.1	3048.0	0.39303		0.34768	1693.5	2669.2
				C:BUS:N.S._99					1726							
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1					-0.09778	-0.12067	-427.2	-765.8
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1					-0.10744	-0.03771	-400.8	-506.6
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.16109	-0.15946	-927.1	-1374.5
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1					-0.01545	0.00642	260.5	278.5
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2					-0.02594	-0.15055	-826.5	-1248.9
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1					0.00583	0.00000	3.8	3.8
3764	2821.9	4904.0	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		361.6	540.0	0.06321		0.05287	308.6	457.8
				C:130757 WATRC345	345	135249 ARMENMTN	345	1	281							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10185	-0.10144	-520.7	-807.0
3765	2828.3	4908.3	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		359.8	540.0	0.06373		0.05287	308.6	458.2
				C:SER:HCWC/NWES					1718							
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					-0.02616	-0.02304	74.1	8.9
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA						
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10260	-0.10144	-520.7	-807.7
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					0.00755	-0.02056	-45.4	-103.5
				Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1		NA						
3766	2830.4	4909.6	L:	146771 SHOEM138	138	146772 SHOEMTAP	138	1		-504.7	-707.0	-0.07148		-0.03871	-402.9	-512.4
				C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	70							
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					0.23130	-0.14165	-440.3	-841.2
3767	2836.2	4913.4	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		360.8	540.0	0.06317		0.05287	308.6	458.6
				C:SER:HC-WC_30&W-F_171					1712							
				Open 135277 FALCONER	115	200579 WARREN	115	1					0.03199	0.00539	-7.1	8.2
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA						
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10139	-0.10144	-520.7	-808.4
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					0.00771	-0.02056	-45.4	-103.7
				Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1		NA						
3768	2841.3	4916.7	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1037.4	-1703.0	-0.23427		-0.22551	-974.4	-1615.1
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183							
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.05592	-0.15659	-1126.4	-1571.3
3769	2850.0	4922.4	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		355.1	540.0	0.06489		0.05287	308.6	459.3
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325							
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.06595	0.18214	704.6	1223.7
3770	2855.0	4925.7	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1034.8	-1703.0	-0.23406		-0.22551	-974.4	-1618.2
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184							
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2					0.05560	-0.15370	-1085.6	-1524.4
3771	2873.2	4937.5	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1032.0	-1703.0	-0.23353		-0.22551	-974.4	-1622.3
				C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185							
				Open 126294 PLTVLLEY	345	137455 ATHENS	345	1					0.05480	-0.14627	-1051.5	-1471.8
3773	2885.6	4945.6	L:	137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1131.3	-1724.0	-0.20541		-0.15035	-827.5	-1261.3
				C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083							
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2					0.35787	-0.15387	-848.9	-1292.9
3774	2903.4	4957.2	*L:	130750 COOPC345	345	130753 FRASR345	345	1		-983.8	-1703.0	-0.24771		-0.22551	-974.4	-1629.1
				C:137200 EDIC	345	147833 MARCY T1	345	1	1029							
				Open 137200 EDIC	345	147833 MARCY T1	345	1					-0.08806	0.25213	106.7	838.8
3777	2934.0	4977.2	L:	137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1124.0	-1724.0	-0.20448		-0.15055	-826.5	-1268.2
				C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083							
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2					0.35053	-0.15387	-848.9	-1300.3
3778	2944.1	4983.8	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		358.5	540.0	0.06166		0.05287	308.6	464.3
				C:95593 CHERYFLT	345	135249 ARMENMTN	345	1	35							
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					0.10185	0.08622	489.7	743.6
3779	2945.0	4984.4	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1196.7	-1725.0	-0.17940		-0.15370	-1085.6	-1538.3



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			C:130750 COOPC345	345	130753 FRASR345	345	1	259											
			Open 130750 COOPC345		345	130753 FRASR345	345	1				0.11396	-0.22551	-974.4	-1638.5				
3780	2945.3	4984.5	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-78.6	-173.0	-0.03205		-0.02295	-43.4	-111.0				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325											
			Open 147834 NIAG 345		345	149000 ROCH 345	345	1				-0.04999	0.18214	704.6	1241.1				
3781	2949.6	4987.4	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:150					1780											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59335	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	147905 ILION	115	1				0.00187	-0.00567	49.3	32.6				
3782	2949.6	4987.4	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:160					1781											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59313	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	137246 VALLEY	115	1				0.00280	-0.00501	43.4	28.6				
3786	2959.7	4994.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1193.7	-1725.0	-0.17950		-0.15370	-1085.6	-1540.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				-0.20766	0.12426	520.6	888.3				
3788	2974.0	5003.3	L: 125000 HURLEY 3	345	125030 HURLEY 1	115	1		374.5	488.0	0.03816		0.01812	290.6	344.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				0.16127	0.12426	520.6	890.1				
3790	2990.8	5014.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1116.8	-1724.0	-0.20304		-0.15035	-827.5	-1277.1				
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084											
			Open 137451 LEEDS 3		345	137453 N.SCOT99	345	2				0.35002	-0.15055	-826.5	-1276.7				
3791	2994.2	5016.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		357.0	540.0	0.06111		0.05287	308.6	466.9				
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1458											
			Open 95593 CHERYFLT		345	200769 HOMER CY	345	1				-0.10185	-0.08088	-475.3	-717.5				
3792	2996.3	5017.9	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		350.9	540.0	0.06311		0.05277	297.9	456.0				
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281											
			Open 130757 WATRC345		345	135249 ARMENMTN	345	1				-0.10185	-0.10144	-520.7	-824.7				

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, AUG 29 2011 15:32  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3796  
 First violation - 697.6 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3796 violations

Interface-1 Interface 8 CE-GROUP Init.Flow= 4632.89 TDF= 1.0003

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment					
			C: Contingency description	Flow	Rating	LODF	Init	Final						
1	697.6	5330.7	L: 137451 LEEDS 3 C:BUS:N.S._77	345	137453 N.SCOT99	345 2	-1517.4	-1724.0	-0.29621	-0.15055	-826.5	-931.5	Invalid contingency	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345 1				0.57690	-0.16088	-664.2	-776.5	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115 1				0.43450	0.00564	245.1	249.1	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345 01	NA							
			Open 137200 EDIC	345	137452 N.SCOT77	345 1				-0.37047	0.15056	837.8	942.9	
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1				-0.29758	-0.00158	169.4	168.3	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 1				0.00000	-0.15035	-827.5	-932.4	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 2				0.21348	0.00000	-250.0	-250.0	
2	926.2	5559.3	L: 130761 AVOCA230 C:130757 WATRC345	230	131154 STONY RIDGE	230 1	323.6	383.0	0.06411		0.05248	263.9	312.6	
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				-0.11461	-0.10144	-520.7	-614.7	
3	938.6	5571.8	L: 130761 AVOCA230 C:SER:HCWC/NWES	230	131154 STONY RIDGE	230 1	322.9	383.0	0.06406		0.05248	263.9	313.2	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115 1				-0.00558	-0.02304	74.1	52.4	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345 1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				-0.11477	-0.10144	-520.7	-616.0	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345 1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345 1				0.00933	-0.02056	-45.4	-64.7	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5 1	NA							
4	943.8	5576.9	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230	131154 STONY RIDGE	230 1	322.5	383.0	0.06410		0.05248	263.9	313.5	
			Open 135277 FALCONER	115	200579 WARREN	115 1				0.04698	0.00539	-7.1	-2.0	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345 1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				-0.11394	-0.10144	-520.7	-616.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345 1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345 1				0.00956	-0.02056	-45.4	-64.8	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5 1	NA							
5	964.5	5597.7	L: 130763 HILSD230 C:130757 WATRC345	230	131154 STONY RIDGE	230 1	-321.2	-383.0	-0.06411		-0.05248	-261.5	-312.1	
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				0.11461	-0.10144	-520.7	-618.6	
6	977.0	5610.1	L: 130763 HILSD230 C:SER:HCWC/NWES	230	131154 STONY RIDGE	230 1	-320.4	-383.0	-0.06406		-0.05248	-261.5	-312.8	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115 1				0.00558	-0.02304	74.1	51.5	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345 1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				0.11477	-0.10144	-520.7	-619.8	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345 1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345 1				-0.00933	-0.02056	-45.4	-65.5	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5 1	NA							
7	982.1	5615.3	L: 130763 HILSD230 C:SER:HC-WC_30&W-F_171	230	131154 STONY RIDGE	230 1	-320.0	-383.0	-0.06410		-0.05248	-261.5	-313.0	
			Open 135277 FALCONER	115	200579 WARREN	115 1				-0.04698	0.00539	-7.1	-1.8	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345 1	NA							

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11394	-0.10144	-520.7	-620.4	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00956	-0.02056	-45.4	-65.6	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
8	1009.1	5642.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	320.1	383.0	0.06236	0.05248	263.9	316.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11461	0.08622	489.7	576.7	
9	1031.5	5664.6	L: 130750 COOPC345	345	130753	FRASR345	345	1	-974.4	-1207.0	-0.22551			
			Base Case											
10	1045.8	5678.9	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	318.4	383.0	0.06175	0.05248	263.9	318.8
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11461	-0.08088	-475.3	-559.9	
11	1048.5	5681.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-317.6	-383.0	-0.06236	-0.05248	-261.5	-316.5
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.11461	0.08622	489.7	580.1	
12	1085.6	5718.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-316.0	-383.0	-0.06175	-0.05248	-261.5	-318.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.11461	-0.08088	-475.3	-563.1	
13	1149.4	5782.6	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	329.7	383.0	0.04640	0.05248	263.9	324.3
			C:BUS:WATERCURE_345											1743
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.04479	-0.10144	-520.7	-637.3	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.15980	-0.06646	265.3	188.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.03638	0.00000	-0.0	-0.0	
14	1202.4	5835.6	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-327.2	-383.0	-0.04640	-0.05248	-261.5	-324.6
			C:BUS:WATERCURE_345											1743
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.04479	-0.10144	-520.7	-642.7	
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.15980	-0.06646	265.3	185.4	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.03638	0.00000	-0.0	-0.0	
15	1386.2	6019.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.7	383.0	0.05650	0.05248	263.9	336.7
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		-0.06156	-0.06530	-661.7	-752.2	
16	1429.7	6063.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-302.2	-383.0	-0.05650	-0.05248	-261.5	-336.5
			C:130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		0.06156	-0.06530	-661.7	-755.0	
17	1436.0	6069.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.4	383.0	0.05475	0.05248	263.9	339.3
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		-0.05429	-0.04175	-744.9	-804.8	
18	1477.1	6110.4	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1427.7	-1725.0	-0.20126	-0.15370	-1085.6	-1312.6
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1						183
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1		0.30372	-0.15659	-1126.4	-1357.7	
19	1480.9	6114.2	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-301.9	-383.0	-0.05475	-0.05248	-261.5	-339.2
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		0.05429	-0.04175	-744.9	-806.7	
20	1551.7	6185.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1274.1	-1703.0	-0.27642	-0.22551	-974.4	-1324.3
			C:130750 COOPC345	345	147833	MARCY T1	345	1						263
			Open 130750 COOPC345	345	147833	MARCY T1	345	1		0.41671	-0.12217	-719.1	-908.7	
21	1568.9	6202.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	291.8	383.0	0.05814	0.05248	263.9	346.3
			C:130774 BATH 115	115	131347	HOWARD	115	1						299
			Open 130774 BATH 115	115	131347	HOWARD	115	1		-0.28676	-0.01974	-97.1	-128.0	
22	1596.5	6229.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1085.6	-1331.0	-0.15370			
			Base Case											
23	1611.2	6244.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-289.3	-383.0	-0.05814	-0.05248	-261.5	-346.0
			C:130774 BATH 115	115	131347	HOWARD	115	1						299
			Open 130774 BATH 115	115	131347	HOWARD	115	1		0.28676	-0.01974	-97.1	-128.9	
24	1624.0	6257.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	289.0	383.0	0.05786	0.05248	263.9	349.2
			C:131342 BENET115	115	131347	HOWARD	115	1						472
			Open 131342 BENET115	115	131347	HOWARD	115	1		0.28676	0.01875	87.5	118.0	
25	1654.8	6288.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1398.6	-1725.0	-0.19724	-0.15370	-1085.6	-1340.0
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1						185
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.29765	-0.14627	-1051.5	-1293.6	
26	1666.5	6299.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-286.6	-383.0	-0.05786	-0.05248	-261.5	-348.9
			C:131342 BENET115	115	131347	HOWARD	115	1						472
			Open 131342 BENET115	115	131347	HOWARD	115	1		-0.28676	0.01875	87.5	118.8	
30	1737.8	6371.2	L: 130750 COOPC345	345	146754	MDTN TAP	345	1	1297.9	1793.0	0.28492	0.18036	843.9	1157.3
			C:125001 ROCK TAV	345	130750	COOPC345	345	2						69

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			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62491	-0.16732	-726.5	-1017.2
31	1739.1	6372.4	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.03152	0.02256	83.6	122.8	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04916	0.18214	704.6	1021.4
33	1755.5	6388.9	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.5	-402.0	-0.03162	-0.00861	-236.5	-251.6	
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.13877	-0.12067	-427.2	-639.0
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.01297	-0.03771	-400.8	-467.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03885	-0.15946	-927.1	-1207.0
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.05287	0.00642	260.5	271.8
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00510	-0.15055	-826.5	-1090.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01886	0.00000	3.8	3.8
37	1813.1	6446.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-320.6	-430.0	-0.06033				
			Base Case											
40	1816.5	6449.9	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1377.1	-1725.0	-0.19153	-0.14627	-1051.5	-1317.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1						183	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.28903	-0.15659	-1126.4	-1410.8
50	1898.0	6531.4	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.5	-1725.0	-0.19044	-0.14627	-1051.5	-1329.2	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2						184	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.28739	-0.15370	-1085.6	-1377.4
57	1910.6	6544.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.5	-1331.0	-0.14627				
			Base Case											
80	1972.9	6606.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1244.5	-1793.0	-0.27803	-0.16732	-726.5	-1056.6	
			C:130750 COOPC345	345	146754 MDTN TAP	345	1						262	
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61383	0.18036	843.9	1199.7
94	2042.0	6675.4	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.7	-1912.0	-0.21561	-0.14417	-983.2	-1277.6	
			C:BUS:N.S._99										1726	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.11712	-0.12067	-427.2	-673.6
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64409	-0.03771	-400.8	-477.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17080	-0.15946	-927.1	-1252.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.04088	0.00642	260.5	273.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.04010	-0.15055	-826.5	-1133.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12264	0.00000	3.8	3.8
96	2047.8	6681.2	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1226.4	-1793.0	-0.27667	-0.16732	-726.5	-1069.1	
			C:SER:CMT34&MTR34										1703	
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.56506	0.18036	843.9	1213.2
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.05249	-0.14165	-440.3	-730.4
121	2098.2	6731.6	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-967.9	-1345.0	-0.17974	-0.12217	-719.1	-975.5	
			C:130750 COOPC345	345	130753 FRASR345	345	1						259	
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25527	-0.22551	-974.4	-1447.6
158	2141.8	6775.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1234.6	1724.0	0.22852	0.15056	837.8	1160.3	
			C:BUS:N.S._99										1726	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.23695	-0.12067	-427.2	-685.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14231	-0.03771	-400.8	-481.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.34308	-0.15946	-927.1	-1268.6
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08889	0.00642	260.5	274.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06737	-0.15055	-826.5	-1148.9
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19736	0.00000	3.8	3.8
173	2159.8	6793.3	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1143.2	1685.0	0.25084	0.18214	704.6	1098.0	
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53277	0.12894	823.3	1101.8
199	2180.7	6814.2	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99										1726	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15055	-826.5	-1154.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
200	2180.7	6814.2	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.2	560.0	0.05448	0.01435	256.8	288.1	
			C:BUS:N.S._99										1726	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12067	-427.2	-690.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03771	-400.8	-483.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.15946	-927.1	-1274.8
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00642	260.5	274.5

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			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00683	-0.15055	-826.5	-1154.8	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03060	0.00000	3.8	3.8	
219	2210.4	6843.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1057.6	-1703.0	-0.29198	-0.22551	-974.4	-1472.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	271					
			Open 130753 FRASR345	345	147831 GILB 345	345	1		-0.36545	0.18188	227.7	629.7	
287	2237.4	6870.9	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-101.3	-173.0	-0.03205	-0.02295	-66.1	-117.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04999	0.18214	704.6	1112.1	
1059	2268.5	6902.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	263.9	383.0	0.05248			
			Base Case										
1965	2295.9	6929.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	308.6	430.0	0.05287			
			Base Case										
2097	2309.3	6942.8	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-520.7	-755.0	-0.10144			
			Base Case										
2806	2315.4	6948.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-261.5	-383.0	-0.05248			
			Base Case										
3594	2353.5	6987.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1121.5	-1703.0	-0.24708	-0.22551	-974.4	-1505.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1		0.14962	-0.14417	-983.2	-1322.5	
3596	2354.1	6987.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-373.6	-540.0	-0.07067	-0.06033	-320.6	-462.6
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10185	-0.10144	-520.7	-759.5	
3604	2363.3	6996.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-371.8	-540.0	-0.07119	-0.06033	-320.6	-463.2
			C:SER:HCWC/NWES					1718					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02616	-0.02304	74.1	19.6	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10260	-0.10144	-520.7	-760.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00755	-0.02056	-45.4	-94.0	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3611	2366.7	7000.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-372.8	-540.0	-0.07063	-0.06033	-320.6	-463.4
			C:SER:HC-WC_30&W-F_171					1712					
			Open 135277 FALCONER	115	200579 WARREN	115	1		-0.03199	0.00539	-7.1	5.7	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10139	-0.10144	-520.7	-760.8	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00771	-0.02056	-45.4	-94.1	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3637	2390.2	7023.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-367.1	-540.0	-0.07235	-0.06033	-320.6	-464.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.06595	0.18214	704.6	1140.0	
3641	2395.6	7029.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1277.3	-1725.0	-0.18689	-0.15370	-1085.6	-1453.8
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.23309	-0.14238	-822.3	-1163.3	
3643	2400.0	7033.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	324.1	478.0	0.06411	0.05248	264.5	390.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11461	-0.10144	-520.7	-764.2	
3647	2413.5	7047.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.4	478.0	0.06406	0.05248	264.5	391.1
			C:SER:HCWC/NWES					1718					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.00558	-0.02304	74.1	18.4	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11477	-0.10144	-520.7	-765.6	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00933	-0.02056	-45.4	-95.0	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3654	2417.8	7051.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.0	478.0	0.06410	0.05248	264.5	391.4
			C:SER:HC-WC_30&W-F_171					1712					
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.04698	0.00539	-7.1	5.9	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.11394	-0.10144	-520.7	-766.0	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00956	-0.02056	-45.4	-95.1	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3666	2452.6	7086.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-370.5	-540.0	-0.06912	-0.06033	-320.6	-468.6
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					

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			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1		-0.10185	0.08622	489.7	701.2		
3672	2469.1	7102.6	L: Interface		73 MarcySouthS						1693.5	2552.0	0.34768				
			Base Case														
3673	2470.3	7103.8	L: 130757	WATRC345		345	130768	WATRC230	230	1	455.4	600.0	0.05852	-0.06646	265.3	101.1	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	274						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.74437	-0.16791	-255.4	-670.2
3677	2493.4	7127.0	L: 130764	MEYER230		230	134750	DAIRY230	230	1	-369.0	-540.0	-0.06857	-0.06033	-320.6	-471.0	
			C: 95593	CHERYFLT		345	200769	HOMER CY	345	1	1458						
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				0.10185	-0.08088	-475.3	-677.0
3682	2503.5	7137.0	L: 95976	STONYCRK		230	131122	WTHRS230	230	1	297.9	430.0	0.05277				
			Base Case														
3686	2513.1	7146.6	L: 130750	COOPC345		345	130753	FRASR345	345	1	-1091.3	-1703.0	-0.24340	-0.22551	-974.4	-1541.1	
			C:BUS:N.S._99								1726						
			Open	137453	N.SCOT99	345	137728	PRINCETW	345	1				0.03126	-0.12067	-427.2	-730.5
			Open	137453	N.SCOT99	345	147831	GILB	345	1				0.12269	-0.03771	-400.8	-495.5
			Open	137453	N.SCOT99	345	147833	MARCY T1	345	1				0.05276	-0.15946	-927.1	-1327.8
			Open	137453	N.SCOT99	345	137516	N.SCOT1	115	1				0.00201	0.00642	260.5	276.7
			Open	137451	LEEDS 3	345	137453	N.SCOT99	345	2				0.00725	-0.15055	-826.5	-1204.8
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				-0.00445	0.00000	3.8	3.8
3692	2524.1	7157.7	L: 130751	CNDGUA_T		230	130761	AVOCA230	230	1	320.6	478.0	0.06236	0.05248	264.5	396.9	
			C: 95593	CHERYFLT		345	135249	ARMENMTN	345	1	35						
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1				0.11461	0.08622	489.7	707.4
3708	2575.8	7209.4	L: 130751	CNDGUA_T		230	130761	AVOCA230	230	1	318.9	478.0	0.06175	0.05248	264.5	399.6	
			C: 95593	CHERYFLT		345	200769	HOMER CY	345	1	1458						
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.11461	-0.08088	-475.3	-683.7
3711	2586.0	7219.6	L: 130764	MEYER230		230	134750	DAIRY230	230	1	-365.7	-540.0	-0.06740	-0.06033	-320.6	-476.6	
			C:130754	KINTI345		345	149000	ROCH	345	1	273						
			Open	130754	KINTI345	345	149000	ROCH	345	1				-0.05478	0.12894	823.3	1156.8
3719	2622.4	7256.0	L: 146758	CHESTER		138	146771	SHOEM138	138	1	-195.8	-317.0	-0.04620	-0.02088	-117.2	-171.9	
			C:125001	ROCK TAV		345	146754	MDTN TAP	345	1	70						
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1				0.17873	-0.14165	-440.3	-811.7
3727	2643.3	7276.9	L: 126294	PLTVLLEY		345	137451	LEEDS 3	345	2	-1203.6	-1725.0	-0.19724	-0.15370	-1085.6	-1491.9	
			C:137451	LEEDS 3		345	137455	ATHENS	345	1	1085						
			Open	137451	LEEDS 3	345	137455	ATHENS	345	1				-0.29765	0.14627	396.5	783.1
3730	2652.8	7286.4	L: 130754	KINTI345		345	149000	ROCH	345	1	1131.6	1685.0	0.20863	0.12894	823.3	1165.4	
			C:147834	NIAG	345	149000	ROCH	345	345	1	1325						
			Open	147834	NIAG	345	149000	ROCH	345	1				0.43748	0.18214	704.6	1187.8
3741	2690.9	7324.5	L: 131018	LOUNS115		115	131850	CNYOG115	115	1	21.5	143.0	0.04517	0.02960	-2.2	77.4	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	274						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.09271	-0.16791	-255.4	-707.3
3742	2692.9	7326.5	L: 130750	COOPC345		345	130753	FRASR345	345	1	-1051.5	-1703.0	-0.24194	-0.22551	-974.4	-1581.7	
			C:BUS:N.S._77								1725						
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				0.04149	-0.16088	-664.2	-1097.5
			Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1				0.02355	0.00564	245.1	260.3
			Open	120601	STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open	137200	EDIC	345	137452	N.SCOT77	345	1				-0.06564	0.15056	837.8	1243.3
			Open	137450	ALPS345	345	137452	N.SCOT77	345	1				-0.00083	-0.00158	169.4	165.2
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1				0.00000	-0.15035	-827.5	-1232.3
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	2				0.00064	0.00000	-250.0	-250.0
3748	2737.7	7371.3	L: 130848	S.OWE115		115	131850	CNYOG115	115	1	-19.3	-143.0	-0.04517	-0.02960	4.3	-76.7	
			C:130755	OAKDL345		345	130757	WATRC345	345	1	274						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.09271	-0.16791	-255.4	-715.1
3750	2744.1	7377.8	L: 137451	LEEDS 3		345	147831	GILB	345	1	-1333.0	-1912.0	-0.21098	-0.14417	-983.2	-1378.8	
			C:BUS:N.S._77								1725						
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				0.20828	-0.16088	-664.2	-1105.7
			Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1				0.17586	0.00564	245.1	260.6
			Open	120601	STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open	137200	EDIC	345	137452	N.SCOT77	345	1				-0.22922	0.15056	837.8	1251.0
			Open	137450	ALPS345	345	137452	N.SCOT77	345	1				-0.13646	-0.00158	169.4	165.1
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1				0.00000	-0.15035	-827.5	-1240.0
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	2				0.15776	0.00000	-250.0	-250.0
3751	2746.5	7380.1	L: 137451	LEEDS 3		345	137453	N.SCOT99	345	2	-1117.2	-1724.0	-0.22095	-0.15055	-826.5	-1240.0	
			C:137452	N.SCOT77		345	137453	N.SCOT99	345	1	1087						
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1				0.43762	-0.16088	-664.2	-1106.1
3754	2752.6	7386.2	L: 130750	COOPC345		345	130753	FRASR345	345	1	-1047.4	-1703.0	-0.23816	-0.22551	-974.4	-1595.1	



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			C:130750 COOPC345	345	130753 FRASR345	345	1	259											
			Open 130750 COOPC345		345	130753 FRASR345	345	1				0.11396	-0.22551	-974.4	-1638.5				
3780	2945.3	7578.9	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-78.6	-173.0	-0.03205		-0.02295	-43.4	-111.0				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325											
			Open 147834 NIAG 345		345	149000 ROCH 345	345	1				-0.04999	0.18214	704.6	1241.1				
3781	2949.6	7583.3	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:150					1780											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59335	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	147905 ILION	115	1				0.00187	-0.00567	49.3	32.6				
3782	2949.6	7583.3	L: 137200 EDIC	345	147833 MARCY T1	345	1		742.8	1793.0	0.35606		0.25213	106.7	850.4				
			C:SIN:160					1781											
			Open 137200 EDIC		345	137452 N.SCOT77	345	1				0.69034	0.15056	837.8	1281.9				
			Open 137228 INGMS-CD		115	137886 INGHAM-E	115	1				0.59313	0.00000	97.0	97.0				
			Open 137235 PORTER 1		115	137246 VALLEY	115	1				0.00280	-0.00501	43.4	28.6				
3786	2959.7	7593.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1193.7	-1725.0	-0.17950		-0.15370	-1085.6	-1540.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				-0.20766	0.12426	520.6	888.3				
3788	2974.0	7607.6	L: 125000 HURLEY 3	345	125030 HURLEY 1	115	1		374.5	488.0	0.03816		0.01812	290.6	344.5				
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3		345	125002 ROSETON	345	1				0.16127	0.12426	520.6	890.1				
3790	2990.8	7624.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1116.8	-1724.0	-0.20304		-0.15035	-827.5	-1277.1				
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084											
			Open 137451 LEEDS 3		345	137453 N.SCOT99	345	2				0.35002	-0.15055	-826.5	-1276.7				
3791	2994.2	7627.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		357.0	540.0	0.06111		0.05287	308.6	466.9				
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1458											
			Open 95593 CHERYFLT		345	200769 HOMER CY	345	1				-0.10185	-0.08088	-475.3	-717.5				
3792	2996.3	7630.0	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		350.9	540.0	0.06311		0.05277	297.9	456.0				
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281											
			Open 130757 WATRC345		345	135249 ARMENMTN	345	1				-0.10185	-0.10144	-520.7	-824.7				



FtoG

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, JUL 11 2011 22:05  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File STARS-ICAP-V30-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3787  
 First violation - 677.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3787 violations

Interface-1 Interface 10 F-To-G Init.Flow= 4333.89 TDF= 0.6639

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment
			C: Contingency description	Flow	Rating	LODF	Init	Final	
1	677.4	4783.7	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1518.6	-1724.0	-0.30322	-0.15415	-827.1 -931.5	Invalid contingency New Scotland will have breaker and a half configuration
			C:BUS:N.S._77 1724						
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1			0.57690	-0.16428	-664.8 -776.1	
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1			0.43450	0.00460	245.1 248.2	
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01	NA					
			Open 137200 EDIC 345 137452 N.SCOT77 345 1			-0.37047	0.15251	838.7 942.0	
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1			-0.29758	-0.00069	169.3 168.8	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1			0.00000	-0.15395	-828.1 -932.4	
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2			0.21348	0.00000	-250.0 -250.0	
2	932.4	4953.0	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	323.3	383.0	0.06404	0.05242	263.7 312.6	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11461	-0.10138	-519.7 -614.2	
3	944.9	4961.2	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.5	383.0	0.06399	0.05242	263.7 313.3	
			C:SER:HCWC/NWES 1717						
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00558	-0.02303	74.0 52.2	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11477	-0.10138	-519.7 -615.5	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00933	-0.02056	-45.4 -64.8	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
4	950.0	4964.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	322.2	383.0	0.06403	0.05242	263.7 313.5	
			C:SER:HC-WC_30&W-F_171 1711						
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04698	0.00539	-7.0 -1.9	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11394	-0.10138	-519.7 -616.0	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00956	-0.02056	-45.4 -64.9	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
5	970.8	4978.4	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.8	-383.0	-0.06404	-0.05242	-261.3 -312.2	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11461	-0.10138	-519.7 -618.1	
6	983.3	4986.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-320.1	-383.0	-0.06399	-0.05242	-261.3 -312.8	
			C:SER:HCWC/NWES 1717						
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00558	-0.02303	74.0 51.3	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11477	-0.10138	-519.7 -619.4	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			-0.00933	-0.02056	-45.4 -65.6	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
7	988.3	4990.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-319.7	-383.0	-0.06403	-0.05242	-261.3 -313.1	
			C:SER:HC-WC_30&W-F_171 1711						
			Open 135277 FALCONER 115 200579 WARREN 115 1			-0.04698	0.00539	-7.0 -1.7	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					

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				Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11394	-0.10138	-519.7	-619.9	
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00956	-0.02056	-45.4	-65.7	
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
8	1015.6	5008.2	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	319.7	383.0	0.06230	0.05242	263.7	317.0
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open	95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11461	0.08616	488.7	576.2	
9	1052.4	5032.6	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	318.1	383.0	0.06168	0.05242	263.7	318.9
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open	95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11461	-0.08082	-474.3	-559.3	
10	1055.0	5034.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-317.3	-383.0	-0.06230	-0.05242	-261.3	-316.6
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
			Open	95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.11461	0.08616	488.7	579.6	
11	1085.7	5054.7	L:	130750 COOPC345	345	130753	FRASR345	345	1	-970.7	-1207.0	-0.21762			
				Base Case											
12	1092.2	5059.0	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-315.6	-383.0	-0.06168	-0.05242	-261.3	-318.5
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
			Open	95593 CHERYFLT	345	200769	HOMER CY	345	1		0.11461	-0.08082	-474.3	-562.5	
13	1157.4	5102.3	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	329.3	383.0	0.04636	0.05242	263.7	324.4
			C:	BUS:WATERCURE_345											1742
			Open	130757 WATRC345	345	135249	ARMENMTN	345	1		-0.04479	-0.10138	-519.7	-637.0	
			Open	130757 WATRC345	345	130768	WATRC230	230	1		0.15980	-0.06638	265.0	188.2	
			Open	130755 OAKDL345	345	130757	WATRC345	345	1		-0.03638	0.00000	-0.0	-0.0	
14	1210.4	5137.5	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-326.9	-383.0	-0.04636	-0.05242	-261.3	-324.7
			C:	BUS:WATERCURE_345											1742
			Open	130757 WATRC345	345	135249	ARMENMTN	345	1		0.04479	-0.10138	-519.7	-642.4	
			Open	130757 WATRC345	345	130768	WATRC230	230	1		-0.15980	-0.06638	265.0	184.6	
			Open	130755 OAKDL345	345	130757	WATRC345	345	1		0.03638	0.00000	-0.0	-0.0	
15	1390.5	5257.1	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1428.2	-1725.0	-0.21348	-0.16303	-1086.0	-1312.6
			C:	126294 PLTVLLEY	345	137451	LEEDS 3	345	1						183
			Open	126294 PLTVLLEY	345	137451	LEEDS 3	345	1		0.30372	-0.16610	-1126.7	-1357.7	
16	1395.6	5260.5	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.3	383.0	0.05640	0.05242	263.7	336.9
			C:	130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open	130755 OAKDL345	345	131128	LAPEER	345	1		-0.06156	-0.06463	-658.8	-749.0	
17	1439.2	5289.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-301.8	-383.0	-0.05640	-0.05242	-261.3	-336.7
			C:	130755 OAKDL345	345	131128	LAPEER	345	1						277
			Open	130755 OAKDL345	345	131128	LAPEER	345	1		0.06156	-0.06463	-658.8	-751.8	
18	1444.0	5292.6	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	304.1	383.0	0.05466	0.05242	263.7	339.4
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open	131128 LAPEER	345	136153	LAFAYTTE	345	1		-0.05429	-0.04116	-743.2	-802.7	
19	1488.9	5322.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-301.6	-383.0	-0.05466	-0.05242	-261.3	-339.3
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1						462
			Open	131128 LAPEER	345	136153	LAFAYTTE	345	1		0.05429	-0.04116	-743.2	-804.5	
20	1503.1	5331.8	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1086.0	-1331.0	-0.16303			
				Base Case											
21	1558.0	5368.3	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1399.0	-1725.0	-0.20921	-0.16303	-1086.0	-1340.0
			C:	126294 PLTVLLEY	345	137455	ATHENS	345	1						185
			Open	126294 PLTVLLEY	345	137455	ATHENS	345	1		0.29765	-0.15515	-1051.9	-1293.6	
22	1574.4	5379.2	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	291.6	383.0	0.05808	0.05242	263.7	346.3
			C:	130774 BATH 115	115	131347	HOWARD	115	1						299
			Open	130774 BATH 115	115	131347	HOWARD	115	1		-0.28676	-0.01973	-97.1	-128.1	
23	1616.7	5407.2	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-289.1	-383.0	-0.05808	-0.05242	-261.3	-346.0
			C:	130774 BATH 115	115	131347	HOWARD	115	1						299
			Open	130774 BATH 115	115	131347	HOWARD	115	1		0.28676	-0.01973	-97.1	-129.0	
24	1620.1	5409.5	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1270.5	-1703.0	-0.26698	-0.21762	-970.7	-1323.3
			C:	130750 COOPC345	345	147833	MARCY T1	345	1						263
			Open	130750 COOPC345	345	147833	MARCY T1	345	1		0.41671	-0.11845	-719.3	-911.2	
25	1629.6	5415.8	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	288.8	383.0	0.05780	0.05242	263.7	349.2
			C:	131342 BENET115	115	131347	HOWARD	115	1						472
			Open	131342 BENET115	115	131347	HOWARD	115	1		0.28676	0.01874	87.5	118.0	
26	1672.1	5444.0	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-286.4	-383.0	-0.05780	-0.05242	-261.3	-348.9
			C:	131342 BENET115	115	131347	HOWARD	115	1						472
			Open	131342 BENET115	115	131347	HOWARD	115	1		-0.28676	0.01874	87.5	118.8	
29	1710.5	5469.5	L:	126294 PLTVLLEY	345	137455	ATHENS	345	1	-1377.5	-1725.0	-0.20316	-0.15515	-1051.9	-1317.2
			C:	126294 PLTVLLEY	345	137451	LEEDS 3	345	1						183

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				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.28903	-0.16610	-1126.7	-1410.8
31	1738.6	5488.2	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1	118.2	173.0	0.03153		0.02257	83.5	122.8
				C:147834 NIAG 345	345	149000 ROCH 345	345	1							
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04916	0.18222	704.5	1021.3
32	1742.2	5490.6	L:	137532 RTRDM1	115	137730 ROTRDM.2	230	2	-346.7	-402.0	-0.03176		-0.00842	-236.5	-251.2
				C:BUS:N.S._99											
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.13877	-0.12291	-428.0	-642.1
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.01297	-0.03927	-400.1	-468.6
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.03885	-0.16158	-928.1	-1209.6
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.05287	0.00533	260.5	269.8
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-0.00510	-0.15415	-827.1	-1095.7
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.01886	0.00000	3.8	3.8
35	1787.4	5520.6	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1	-1363.9	-1725.0	-0.20200		-0.15515	-1051.9	-1329.2
				C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2							
				Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.28739	-0.16303	-1086.0	-1377.4
36	1799.2	5528.4	L:	126294 PLTVLLEY	345	137455 ATHENS	345	1	-1051.9	-1331.0	-0.15515				
				Base Case											
38	1809.5	5535.3	L:	130750 COOPC345	345	146754 MDTN TAP	345	1	1295.0	1793.0	0.27522		0.17384	842.1	1156.6
				C:125001 ROCK TAV	345	130750 COOPC345	345	2							
				Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62491	-0.16223	-724.8	-1018.4
40	1818.7	5541.4	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-320.3	-430.0	-0.06029				
				Base Case											
82	1990.0	5655.1	L:	137451 LEEDS 3	345	147831 GILB 345	345	1	-1471.2	-1912.0	-0.22150		-0.14825	-982.8	-1277.8
				C:BUS:N.S._99											
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.11712	-0.12291	-428.0	-672.6
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64409	-0.03927	-400.1	-478.3
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17080	-0.16158	-928.1	-1249.7
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.04088	0.00533	260.5	271.1
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.04010	-0.15415	-827.1	-1133.9
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12264	0.00000	3.8	3.8
92	2050.0	5695.0	L:	125001 ROCK TAV	345	130750 COOPC345	345	2	-1241.7	-1793.0	-0.26894		-0.16223	-724.8	-1057.4
				C:130750 COOPC345	345	146754 MDTN TAP	345	1							
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61383	0.17384	842.1	1198.4
125	2105.9	5732.0	L:	137200 EDIC	345	137452 N.SCOT77	345	1	1235.9	1724.0	0.23180		0.15251	838.7	1159.9
				C:BUS:N.S._99											
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.23695	-0.12291	-428.0	-686.8
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14231	-0.03927	-400.1	-482.8
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.34308	-0.16158	-928.1	-1268.4
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08889	0.00533	260.5	271.7
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06737	-0.15415	-827.1	-1151.7
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19736	0.00000	3.8	3.8
142	2126.0	5745.4	L:	125001 ROCK TAV	345	130750 COOPC345	345	2	-1223.6	-1793.0	-0.26781		-0.16223	-724.8	-1069.7
				C:SER:CMT34&MTR34											
				Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.56506	0.17384	842.1	1211.6
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.05249	-0.14002	-438.7	-736.4
169	2159.5	5767.7	L:	137729 PRINCETW	230	137730 ROTRDM.2	230	1	441.5	560.0	0.05487		0.01411	256.8	287.3
				C:BUS:N.S._99											
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12291	-428.0	-693.4
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03927	-400.1	-484.9
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.16158	-928.1	-1277.0
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00533	260.5	272.0
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15415	-827.1	-1160.0
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
170	2159.5	5767.7	L:	137729 PRINCETW	230	137730 ROTRDM.2	230	2	441.5	560.0	0.05487		0.01411	256.8	287.3
				C:BUS:N.S._99											
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				-0.24118	-0.12291	-428.0	-693.4
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.02130	-0.03927	-400.1	-484.9
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.06817	-0.16158	-928.1	-1277.0
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.05924	0.00533	260.5	272.0
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00683	-0.15415	-827.1	-1160.0
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.03060	0.00000	3.8	3.8
171	2159.6	5767.7	L:	147834 NIAG 345	345	149000 ROCH 345	345	1	1143.0	1685.0	0.25095		0.18222	704.5	1098.0
				C:130754 KINTI345	345	149000 ROCH 345	345	1							
				Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53277	0.12900	823.2	1101.8
177	2172.0	5776.0	L:	130750 COOPC345	345	147833 MARCY T1	345	1	-967.1	-1345.0	-0.17400		-0.11845	-719.3	-976.5

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				C:130750 COOPC345	345	130753 FRASR345	345	1	259										
				Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25527	-0.21762	-970.7	-1443.4				
265	2236.7	5818.9	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1				-101.3	-173.0	-0.03207			-0.02296	-66.1	-117.4
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
448	2269.6	5840.7	L:	130750 COOPC345	345	130753 FRASR345	345	1				-1053.6	-1703.0	-0.28615			-0.21762	-970.7	-1464.6
				C:130753 FRASR345	345	147831 GILB 345	345	1	271										
				Open 130753 FRASR345	345	147831 GILB 345	345	1											
997	2275.2	5844.5	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1				263.7	383.0	0.05242					
				Base Case															
1960	2302.8	5862.8	L:	131122 WTHRS230	230	134750 DAIRY230	230	1				308.3	430.0	0.05283					
				Base Case															
2065	2314.5	5870.6	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-1277.7	-1725.0	-0.19325			-0.16303	-1086.0	-1463.3
				C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63										
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1											
2322	2321.2	5875.0	L:	130757 WATRC345	345	135249 ARMENMTN	345	1				-519.7	-755.0	-0.10138					
				Base Case															
2636	2322.1	5875.6	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1				-261.3	-383.0	-0.05242					
				Base Case															
3592	2361.0	5901.4	L:	130764 MEYER230	230	134750 DAIRY230	230	1				-373.3	-540.0	-0.07062			-0.06029	-320.3	-462.7
				C:130757 WATRC345	345	135249 ARMENMTN	345	1	281										
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
3600	2370.2	5907.5	L:	130764 MEYER230	230	134750 DAIRY230	230	1				-371.4	-540.0	-0.07114			-0.06029	-320.3	-463.2
				C:SER:HCWC/NWES					1717										
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1											
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
3607	2373.6	5909.8	L:	130764 MEYER230	230	134750 DAIRY230	230	1				-372.5	-540.0	-0.07058			-0.06029	-320.3	-463.5
				C:SER:HC-WC_30&W-F_171					1711										
				Open 135277 FALCONER	115	200579 WARREN	115	1											
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1											
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
3632	2395.2	5924.1	L:	130764 MEYER230	230	134750 DAIRY230	230	1				-366.8	-540.0	-0.07231			-0.06029	-320.3	-464.8
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
3638	2407.8	5932.5	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1				323.8	478.0	0.06404			0.05242	264.2	390.5
				C:130757 WATRC345	345	135249 ARMENMTN	345	1	281										
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
3644	2421.3	5941.5	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1				323.0	478.0	0.06399			0.05242	264.2	391.2
				C:SER:HCWC/NWES					1717										
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1											
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1											
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
3651	2425.6	5944.3	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1				322.7	478.0	0.06403			0.05242	264.2	391.4
				C:SER:HC-WC_30&W-F_171					1711										
				Open 135277 FALCONER	115	200579 WARREN	115	1											
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1											
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1											
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
3657	2440.4	5954.1	L:	130750 COOPC345	345	130753 FRASR345	345	1				-1117.8	-1703.0	-0.23980			-0.21762	-970.7	-1501.8
				C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086										
				Open 137451 LEEDS 3	345	147831 GILB 345	345	1											
3662	2459.7	5967.0	L:	130764 MEYER230	230	134750 DAIRY230	230	1				-370.1	-540.0	-0.06907			-0.06029	-320.3	-468.6
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35										

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			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10185	0.08616	488.7	700.6
3669	2486.2	5984.6	L: 130757 WATRC345	345	130768 WATRC230	230	1	454.6	600.0	0.05850		-0.06638	265.0	100.0
			C:130755 OAKDL345	345	130757 WATRC345	345	1						274	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1							
3671	2489.9	5987.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1204.1	-1725.0	-0.20921		-0.16303	-1086.0	-1491.9
			C:137451 LEEDS 3	345	137455 ATHENS	345	1						1085	
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1							
3673	2500.6	5994.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-368.6	-540.0	-0.06852		-0.06029	-320.3	-471.1
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						1458	
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
3677	2510.6	6000.7	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	297.6	430.0	0.05273				
			Base Case											
3686	2532.3	6015.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	320.2	478.0	0.06230		0.05242	264.2	397.0
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						35	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
3695	2564.9	6036.8	L: Interface 73		MarcySouthS			1690.0	2552.0	0.33607				
			Base Case											
3703	2584.1	6049.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	318.6	478.0	0.06168		0.05242	264.2	399.7
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						1458	
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
3706	2591.6	6054.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-365.4	-540.0	-0.06736		-0.06029	-320.3	-476.6
			C:130754 KINTI345	345	149000 ROCH 345	345	1						273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1							
3711	2608.3	6065.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1087.7	-1703.0	-0.23591		-0.21762	-970.7	-1538.4
			C:BUS:N.S._99										1725	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1							
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1							
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
3723	2645.2	6090.1	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-195.3	-317.0	-0.04599		-0.02097	-116.9	-172.4
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						70	
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
3726	2652.4	6094.9	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1131.4	1685.0	0.20872		0.12900	823.2	1165.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						1325	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							
3729	2668.0	6105.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1234.3	-1725.0	-0.18390		-0.15515	-1051.9	-1465.8
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						63	
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1							
3733	2674.4	6109.5	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1332.9	-1912.0	-0.21652		-0.14825	-982.8	-1379.3
			C:BUS:N.S._77										1724	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2							
3735	2680.8	6113.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1118.0	-1724.0	-0.22604		-0.15415	-827.1	-1240.3
			C:137452 N.SCOT77	345	137453 N.SCOT99	345	1						1087	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
3740	2690.0	6119.9	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	21.6	143.0	0.04512		0.02957	-2.0	77.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1						274	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1							
3748	2736.8	6150.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-19.5	-143.0	-0.04512		-0.02957	4.1	-76.8
			C:130755 OAKDL345	345	130757 WATRC345	345	1						274	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1							
3755	2795.5	6189.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1047.9	-1703.0	-0.23434		-0.21762	-970.7	-1579.1
			C:BUS:N.S._77										1724	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1							

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			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.00000	-0.15395	-828.1	-1258.5
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.00064	0.00000	-250.0	-250.0
3758	2809.8	6199.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-377.7 -540.0 -0.05777		-0.06029	-320.3	-489.8
			C:BUS:WATERCURE_345								1742	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.05113	-0.10138	-519.7	-804.5
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11608	-0.06638	265.0	78.5
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04425	0.00000	-0.0	-0.0
3760	2813.2	6201.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1196.6 -1725.0 -0.18784		-0.16303	-1086.0	-1544.6
			C:130750 COOPC345	345	130753 FRASR345	345	1	259				
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.11396	-0.21762	-970.7	-1583.0
3761	2814.0	6202.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1132.1 -1724.0 -0.21033		-0.15395	-828.1	-1261.3
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083				
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.35787	-0.15756	-849.6	-1292.9
3762	2830.0	6212.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	361.3 540.0 0.06316		0.05283	308.3	457.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	281				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10185	-0.10138	-519.7	-806.6
3763	2833.1	6214.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1194.1 -1725.0 -0.18738		-0.16303	-1086.0	-1547.8
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61				
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1		-0.20766	0.11724	521.0	853.1
3764	2836.4	6217.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	359.4 540.0 0.06368		0.05283	308.3	458.2
			C:SER:HCWC/NWES								1717	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.02616	-0.02303	74.0	8.6
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10260	-0.10138	-519.7	-807.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00755	-0.02056	-45.4	-103.7
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA				
3765	2844.3	6222.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	360.5 540.0 0.06312		0.05283	308.3	458.6
			C:SER:HC-WC_30&W-F_171								1711	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.03199	0.00539	-7.0	8.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10139	-0.10138	-519.7	-808.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00771	-0.02056	-45.4	-103.9
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA				
3766	2855.9	6230.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	354.8 540.0 0.06485		0.05283	308.3	459.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325				
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.06595	0.18222	704.5	1224.9
3767	2858.5	6231.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4 -1725.0 -0.16741		-0.16303	-1086.0	-1552.0
			C:SIN:430								1792	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1		-0.12774	0.03428	1256.5	1354.4
3768	2858.5	6231.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1246.4 -1725.0 -0.16741		-0.16303	-1086.0	-1552.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1	71				
			Open 125002 ROSETON	345	126281 FISHKILL	345	1		-0.12774	0.03428	1256.5	1354.4
3769	2861.3	6233.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1124.9 -1724.0 -0.20938		-0.15415	-827.1	-1268.2
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	2	1083				
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.35053	-0.15756	-849.6	-1300.4
3770	2876.8	6243.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1043.8 -1703.0 -0.22914		-0.21762	-970.7	-1596.8
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63				
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.08883	-0.12962	-822.7	-1195.6
3772	2893.9	6255.2	L: Interface 73		MarcySouthS			1941.8 3048.0 0.38225		0.33607	1690.0	2662.6
			C:BUS:N.S._99								1725	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.09778	-0.12291	-428.0	-783.7
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.10744	-0.03927	-400.1	-513.8
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.16109	-0.16158	-928.1	-1395.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.01545	0.00533	260.5	275.9
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-0.02594	-0.15415	-827.1	-1273.2
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.00583	0.00000	3.8	3.8
3773	2916.8	6270.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1117.6 -1724.0 -0.20790		-0.15395	-828.1	-1277.1
			C:137451 LEEDS 3	345	137453 N.SCOT99	345	2	1084				
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.35002	-0.15415	-827.1	-1276.7
3774	2931.6	6280.3	L: 137200 EDIC	345	147833 MARCY T1	345	1	745.4 1793.0 0.35736		0.25208	108.5	847.5
			C:SIN:150								1779	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.69034	0.15251	838.7	1285.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.59335	0.00000	97.3	97.3

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			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00187	-0.00567	49.4	32.8
3775	2931.6	6280.3	L: 137200 EDIC	345	147833 MARCY T1	345	1	745.4 1793.0 0.35735		0.25208	108.5	847.5
			C:SIN:160									1780
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.69034	0.15251	838.7	1285.8
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.59313	0.00000	97.3	97.3
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00280	-0.00501	43.6	28.9
3776	2932.8	6281.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1115.0 -1724.0 -0.20766		-0.15415	-827.1	-1279.2
			C:137451 LEEDS 3	345	137452 N.SCOT77	345	1	1082				
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.34761	-0.15395	-828.1	-1279.6
3778	2944.3	6288.7	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-78.6 -173.0 -0.03207		-0.02296	-43.4	-111.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1325				
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04999	0.18222	704.5	1241.0
3779	2949.4	6292.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1033.7 -1703.0 -0.22691		-0.21762	-970.7	-1612.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	183				
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.05592	-0.16610	-1126.7	-1616.6
3780	2952.5	6294.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	358.1 540.0 0.06161		0.05283	308.3	464.3
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10185	0.08616	488.7	743.0
3781	2957.1	6297.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1186.4 -1792.0 -0.20479		-0.16158	-928.1	-1405.9
			C:SIN:150					1779				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.28336	0.15251	838.7	1289.7
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.21192	0.00000	97.3	97.3
			Open 137235 PORTER 1	115	147905 ILION	115	1		-0.00025	-0.00567	49.4	32.7
3782	2957.1	6297.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1186.4 -1792.0 -0.20479		-0.16158	-928.1	-1405.9
			C:SIN:160					1780				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.28336	0.15251	838.7	1289.7
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.21189	0.00000	97.3	97.3
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		-0.00037	-0.00501	43.6	28.7
3783	2963.9	6301.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1031.1 -1703.0 -0.22669		-0.21762	-970.7	-1615.7
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	184				
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		0.05560	-0.16303	-1086.0	-1569.2
3784	2968.6	6304.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1189.3 -1792.0 -0.20304		-0.16158	-928.1	-1407.8
			C:137728 PRINCETW	345	999837 JORDNVLL	345	1	1199				
			Open 137728 PRINCETW	345	999837 JORDNVLL	345	1		0.27437	-0.15113	-951.8	-1400.4
3785	2983.4	6314.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1028.4 -1703.0 -0.22612		-0.21762	-970.7	-1620.0
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	185				
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.05480	-0.15515	-1051.9	-1514.7

UPNY-SENY

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, JUL 17 2011 7:29  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3818  
 First violation - 728.9 MW.

Study transfer. From ON\_F\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3818 violations

Interface-1 Interface 11 UPNY SENY-OP Init.Flow= 6410.23 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment	
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init	Final	
1	728.9	7139.2	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	338.8	383.0	0.06064	0.04964	273.4	309.6	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				-0.11467	-0.09596	-570.2	-640.2
2	729.7	7140.0	L: 137451 LEEDS 3 345 137453 N.SCOT99 345 2	-1524.6	-1724.0	-0.27328	-0.13561	-810.0	-909.0	
			C:BUS:N.S._77 1724							Invalid contingency
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1				0.57745	-0.16434	-777.1	-897.0
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1				0.43583	0.00098	256.5	257.2
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01 NA							New Scotland will have breaker and a half configuration
			Open 137200 EDIC 345 137452 N.SCOT77 345 1				-0.37120	0.14240	885.3	989.3
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1				-0.30150	-0.03205	-14.7	-38.1
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1				-0.00000	-0.13527	-809.9	-908.7
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 2				0.21372	0.00000	-250.0	-250.0
3	739.8	7150.0	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	338.2	383.0	0.06060	0.04964	273.4	310.1	
			C:SER:HCWC/NWES 1717							
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.00559	-0.02180	54.2	38.1
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				-0.11483	-0.09596	-570.2	-641.2
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA							
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				0.00932	-0.01945	-44.4	-58.8
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA							
4	757.3	7167.5	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	337.1	383.0	0.06063	0.04964	273.4	311.0	
			C:SER:HC-WC_30&W-F_171 1711							
			Open 135277 FALCONER 115 200579 WARREN 115 1				0.04699	0.00510	-19.2	-15.4
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				-0.11400	-0.09596	-570.2	-642.9
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA							
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				0.00955	-0.01945	-44.4	-59.1
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA							
5	772.5	7182.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-336.2	-383.0	-0.06064	-0.04964	-270.8	-309.1	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 281							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				0.11467	-0.09596	-570.2	-644.4
6	783.4	7193.6	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-335.5	-383.0	-0.06060	-0.04964	-270.8	-309.7	
			C:SER:HCWC/NWES 1717							
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.00559	-0.02180	54.2	37.1
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA							
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				0.11483	-0.09596	-570.2	-645.4
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA							
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				-0.00932	-0.01945	-44.4	-59.6
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA							
7	800.8	7211.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-334.4	-383.0	-0.06063	-0.04964	-270.8	-310.5	
			C:SER:HC-WC_30&W-F_171 1711							
			Open 135277 FALCONER 115 200579 WARREN 115 1				-0.04699	0.00510	-19.2	-15.2
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA							



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				Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11400	-0.09596	-570.2	-647.1	
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00955	-0.01945	-44.4	-60.0	
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
8	807.7	7218.0	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	335.4	383.0	0.05899	0.04964	273.4	313.5
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						
9	844.0	7254.2	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	333.7	383.0	0.05841	0.04964	273.4	315.3
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						
10	852.5	7262.7	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-332.7	-383.0	-0.05899	-0.04964	-270.8	-313.1
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1						35
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						
11	866.9	7277.1	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1020.9	-1207.0	-0.21470			
				Base Case											
12	889.2	7299.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-331.1	-383.0	-0.05841	-0.04964	-270.8	-314.9
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1						1458
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						
13	1086.6	7496.8	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	335.3	383.0	0.04390	0.04964	273.4	327.3
			C:	BUS:WATERCURE_345											1742
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1						
				Open 130757 WATRC345	345	130768	WATRC230	230	1						
				Open 130755 OAKDL345	345	130757	WATRC345	345	1						
14	1146.8	7557.0	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-332.7	-383.0	-0.04390	-0.04964	-270.8	-327.7
			C:	BUS:WATERCURE_345											1742
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1						
				Open 130757 WATRC345	345	130768	WATRC230	230	1						
				Open 130755 OAKDL345	345	130757	WATRC345	345	1						
15	1301.3	7711.5	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	313.5	383.0	0.05343	0.04964	273.4	338.0
			C:	130755 OAKDL345	345	131128	LAPEER	345	1						277
				Open 130755 OAKDL345	345	131128	LAPEER	345	1						
16	1350.8	7761.0	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-310.8	-383.0	-0.05343	-0.04964	-270.8	-337.8
			C:	130755 OAKDL345	345	131128	LAPEER	345	1						277
				Open 130755 OAKDL345	345	131128	LAPEER	345	1						
17	1353.6	7763.9	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	312.9	383.0	0.05178	0.04964	273.4	340.6
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1						462
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1						
18	1404.7	7814.9	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-310.3	-383.0	-0.05178	-0.04964	-270.8	-340.5
			C:	131128 LAPEER	345	136153	LAFAYTTE	345	1						462
				Open 131128 LAPEER	345	136153	LAFAYTTE	345	1						
19	1429.9	7840.2	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1326.9	-1703.0	-0.26302	-0.21470	-1020.9	-1327.9
			C:	130750 COOPC345	345	147833	MARCY T1	345	1						263
				Open 130750 COOPC345	345	147833	MARCY T1	345	1						
20	1457.0	7867.2	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	302.9	383.0	0.05499	0.04964	273.4	345.7
			C:	130774 BATH 115	115	131347	HOWARD	115	1						299
				Open 130774 BATH 115	115	131347	HOWARD	115	1						
21	1505.1	7915.3	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-300.2	-383.0	-0.05499	-0.04964	-270.8	-345.5
			C:	130774 BATH 115	115	131347	HOWARD	115	1						299
				Open 130774 BATH 115	115	131347	HOWARD	115	1						
22	1513.9	7924.2	*L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	300.1	383.0	0.05473	0.04964	273.4	348.6
			C:	131342 BENET115	115	131347	HOWARD	115	1						472
				Open 131342 BENET115	115	131347	HOWARD	115	1						
23	1562.2	7972.4	*L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-297.5	-383.0	-0.05473	-0.04964	-270.8	-348.3
			C:	131342 BENET115	115	131347	HOWARD	115	1						472
				Open 131342 BENET115	115	131347	HOWARD	115	1						
26	1600.5	8010.8	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-338.7	-430.0	-0.05707			
				Base Case											
29	1649.6	8059.9	L:	130750 COOPC345	345	146754	MDTN TAP	345	1	1345.9	1793.0	0.27102	0.17165	874.1	1157.3
			C:	125001 ROCK TAV	345	130750	COOPC345	345	2						69
				Open 125001 ROCK TAV	345	130750	COOPC345	345	2						
30	1653.1	8063.3	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1417.8	-1725.0	-0.18585	-0.14185	-1077.5	-1312.0
			C:	126294 PLTVLLEY	345	137451	LEEDS 3	345	1						183
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1						
34	1718.9	8129.2	L:	137729 PRINCETW	230	137730	ROTRDM.2	230	1	471.2	560.0	0.05166	0.01410	278.7	302.9
			C:	BUS:N.S._99											1725

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			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.24114	-0.11328	-438.4	-633.1	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.02137	-0.03741	-446.9	-511.2	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.06823	-0.15077	-979.1	-1238.3	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.05930	0.00151	272.8	275.4	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00691	-0.13561	-810.0	-1043.1	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03063	0.00000	4.6	4.6	
35	1718.9	8129.2	L: 137729 PRINCETW	230	137730 ROTRDM.2	230	2	471.2	560.0	0.05166	0.01410	278.7	302.9
			C:BUS:N.S._99									1725	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.24114	-0.11328	-438.4	-633.1	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.02137	-0.03741	-446.9	-511.2	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.06823	-0.15077	-979.1	-1238.3	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.05930	0.00151	272.8	275.4	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00691	-0.13561	-810.0	-1043.1	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03063	0.00000	4.6	4.6	
39	1787.2	8197.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1077.5	-1331.0	-0.14185			
			Base Case										
45	1825.9	8236.2	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1543.7	-1912.0	-0.20172	-0.13319	-1016.3	-1259.5
			C:BUS:N.S._99									1725	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		0.11725	-0.11328	-438.4	-645.2	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.64406	-0.03741	-446.9	-515.2	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.17091	-0.15077	-979.1	-1254.4	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.04094	0.00151	272.8	275.6	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.04019	-0.13561	-810.0	-1057.6	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12266	0.00000	4.6	4.6	
54	1843.2	8253.5	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1247.4	1685.0	0.23739	0.17234	780.0	1097.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1					273	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1		0.53321	0.12200	876.6	1101.4	
56	1844.2	8254.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1388.9	-1725.0	-0.18225	-0.14185	-1077.5	-1339.1
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1					185	
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.29835	-0.13541	-1043.8	-1293.5	
78	1896.6	8306.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1291.6	-1793.0	-0.26438	-0.15902	-755.1	-1056.7
			C:130750 COOPC345	345	146754 MDTN TAP	345	1					262	
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.61378	0.17165	874.1	1199.6	
82	1910.6	8320.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1309.3	1724.0	0.21707	0.14240	885.3	1157.4
			C:BUS:N.S._99									1725	
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.23704	-0.11328	-438.4	-654.8	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.14235	-0.03741	-446.9	-518.4	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.34327	-0.15077	-979.1	-1267.2	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.08889	0.00151	272.8	275.7	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.06736	-0.13561	-810.0	-1069.1	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.19726	0.00000	4.6	4.6	
84	1925.5	8335.7	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-570.2	-755.0	-0.09596			
			Base Case										
90	1944.4	8354.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-114.0	-173.0	-0.03034	-0.02171	-75.0	-117.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1325	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05005	0.17234	780.0	1115.1	
97	1975.6	8385.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1273.3	-1793.0	-0.26304	-0.15902	-755.1	-1069.2
			C:SER:CMT34&MTR34									1703	
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1		-0.56494	0.17165	874.1	1213.2	
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.05258	-0.13398	-464.9	-729.6	
112	2016.0	8426.3	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1367.6	-1725.0	-0.17728	-0.13541	-1043.8	-1316.8
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1					183	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.28973	-0.14452	-1117.7	-1409.1	
136	2050.0	8460.2	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-994.9	-1345.0	-0.17077	-0.11598	-734.4	-972.1
			C:130750 COOPC345	345	130753 FRASR345	345	1					259	
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.25520	-0.21470	-1020.9	-1461.0	
144	2056.6	8466.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1133.2	-1703.0	-0.27704	-0.21470	-1020.9	-1462.4
			C:130753 FRASR345	345	147831 GILB 345	345	1					271	
			Open 130753 FRASR345	345	147831 GILB 345	345	1		-0.36544	0.17060	307.5	658.3	
145	2060.1	8470.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	327.0	430.0	0.05001			
			Base Case										
185	2103.8	8514.0	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1354.2	-1725.0	-0.17627	-0.13541	-1043.8	-1328.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2					184	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		0.28808	-0.14185	-1077.5	-1375.9	
204	2121.3	8531.5	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1043.8	-1331.0	-0.13541			

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Base Case														
205	2121.4	8531.7	L: 130757 WATRC345	345	130768 WATRC230	230	1	482.6	600.0	0.05536	-0.06287	227.3	93.9	
			C:130755 OAKDL345	345	130757 WATRC345	345	1					274		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.74438	-0.15883	-343.0	-679.9
216	2142.4	8552.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-396.8	-540.0	-0.06685	-0.05707	-338.7	-460.9	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					281		
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10192	-0.09596	-570.2	-775.8
220	2146.3	8556.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-395.5	-540.0	-0.06735	-0.05707	-338.7	-461.1	
			C:SER:HCWC/NWES									1717		
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02617	-0.02180	54.2	7.4
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10267	-0.09596	-570.2	-776.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00753	-0.01945	-44.4	-86.2
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA			
261	2161.6	8571.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-395.6	-540.0	-0.06682	-0.05707	-338.7	-462.0	
			C:SER:HC-WC_30&W-F_171									1711		
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03201	0.00510	-19.2	-8.2
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10147	-0.09596	-570.2	-777.7
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00770	-0.01945	-44.4	-86.5
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA			
324	2188.1	8598.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.2	-540.0	-0.06846	-0.05707	-338.7	-463.5	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1325		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06609	0.17234	780.0	1157.1
1074	2207.8	8618.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	273.4	383.0	0.04964				
			Base Case											
1960	2237.3	8647.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-393.7	-540.0	-0.06538	-0.05707	-338.7	-466.3	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10192	0.08156	540.2	722.7
2250	2258.9	8669.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1173.0	-1703.0	-0.23463	-0.21470	-1020.9	-1505.9	
			C:137451 LEEDS 3	345	147831 GILB 345	345	1					1086		
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.14966	-0.13319	-1016.3	-1317.1
2728	2261.1	8671.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-270.8	-383.0	-0.04964				
			Base Case											
3538	2277.3	8687.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	316.3	430.0	0.04992				
			Base Case											
3541	2277.7	8687.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-392.3	-540.0	-0.06487	-0.05707	-338.7	-468.6	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1					1458		
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10192	-0.07651	-525.8	-700.1
3567	2285.7	8695.9	L: 131018 LOUNS115	115	131850 CNYOG115	115	1	45.4	143.0	0.04272	0.02800	13.6	77.6	
			C:130755 OAKDL345	345	130757 WATRC345	345	1					274		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09270	-0.15883	-343.0	-706.0
3570	2286.3	8696.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	339.4	478.0	0.06064	0.04964	274.0	387.5	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					281		
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11467	-0.09596	-570.2	-789.6
3594	2298.3	8708.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	338.7	478.0	0.06060	0.04964	274.0	388.0	
			C:SER:HCWC/NWES									1717		
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00559	-0.02180	54.2	4.1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11483	-0.09596	-570.2	-790.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00932	-0.01945	-44.4	-89.1
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA			
3623	2314.9	8725.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	337.6	478.0	0.06063	0.04964	274.0	388.9	
			C:SER:HC-WC_30&W-F_171									1711		
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.04699	0.00510	-19.2	-7.4
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11400	-0.09596	-570.2	-792.4
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00955	-0.01945	-44.4	-89.4
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA			
3640	2335.1	8745.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-43.2	-143.0	-0.04272	-0.02800	-11.4	-76.8	
			C:130755 OAKDL345	345	130757 WATRC345	345	1					274		

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			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09270	-0.15883	-343.0	-713.9
3652	2364.2	8774.4	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1218.2	1685.0	0.19747		0.12200	876.6	1165.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.43791	0.17234	780.0	1187.5
3667	2401.4	8811.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1146.4	-1703.0	-0.23177		-0.21470	-1020.9	-1536.5
			C:BUS:N.S._99											
			Open 137453 N.SCOT99	345	137728 PRINCETW	345	1				0.03129	-0.11328	-438.4	-710.4
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.12263	-0.03741	-446.9	-536.7
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.05274	-0.15077	-979.1	-1341.2
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.00205	0.00151	272.8	276.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.00731	-0.13561	-810.0	-1135.7
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.00487	0.00000	4.6	4.6
3668	2403.1	8813.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.8	-540.0	-0.06377		-0.05707	-338.7	-475.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.05488	0.12200	876.6	1169.7
3670	2408.7	8818.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	335.9	478.0	0.05899		0.04964	274.0	393.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.11467	0.08156	540.2	736.7
3671	2409.4	8819.6	L: Interface	73	MarcySouthS			1755.3	2552.0	0.33068				
			Base Case											
3680	2460.8	8871.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	334.3	478.0	0.05841		0.04964	274.0	396.1
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.11467	-0.07651	-525.8	-714.1
3718	2560.3	8970.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-204.3	-317.0	-0.04403		-0.02008	-121.2	-172.6
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17871	-0.13398	-464.9	-808.0
3724	2589.5	8999.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1105.3	-1703.0	-0.23081		-0.21470	-1020.9	-1576.8
			C:BUS:N.S._77											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.04155	-0.16434	-777.1	-1202.6
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.02370	0.00098	256.5	259.0
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06569	0.14240	885.3	1254.1
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.00132	-0.03205	-14.7	-97.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.00000	-0.13527	-809.9	-1160.2
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.00028	0.00000	-250.0	-250.0
3725	2590.7	9001.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	385.1	540.0	0.05979		0.05001	327.0	456.5
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10192	-0.09596	-570.2	-818.8
3726	2591.4	9001.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	383.8	540.0	0.06029		0.05001	327.0	456.6
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.02617	-0.02180	54.2	-2.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10267	-0.09596	-570.2	-818.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00753	-0.01945	-44.4	-94.8
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3732	2611.9	9022.1	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1270.9	-1725.0	-0.17385		-0.14185	-1077.5	-1448.0
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1							
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.23333	-0.13712	-829.1	-1187.3
3733	2612.4	9022.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	383.9	540.0	0.05976		0.05001	327.0	457.6
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.03201	0.00510	-19.2	-5.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10147	-0.09596	-570.2	-820.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00770	-0.01945	-44.4	-95.2
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3737	2629.9	9040.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	378.5	540.0	0.06140		0.05001	327.0	458.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.06609	0.17234	780.0	1233.3
3738	2633.7	9043.9	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	540.2	755.0	0.08156				
			Base Case											
3745	2665.2	9075.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-394.2	-540.0	-0.05469		-0.05707	-338.7	-490.8
			C:BUS:WATERCURE_345											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.05123	-0.09596	-570.2	-826.0

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				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11604	-0.06287	227.3	59.7
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04435	0.00000	-0.0	-0.0
3749	2681.9	9092.2	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1094.5	-1703.0	-0.22688	-0.21470 -1020.9 -1596.7
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	63				
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1		0.08883	-0.13712	-829.1	-1196.9
3752	2698.9	9109.1	L:	135858 GOLAH115	115	135862 MUMFORD1	115	1		-91.1	-173.0	-0.03034	-0.02171 -52.1 -110.7
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1325				
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05005	0.17234	780.0	1245.2
3753	2708.4	9118.7	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		382.0	540.0	0.05833	0.05001 327.0 462.4
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1	35				
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10192	0.08156	540.2	761.1
3756	2716.6	9126.8	L:	130757 WATRC345	345	135249 ARMENMTN	345	1		-665.1	-927.0	-0.09642	-0.09596 -570.2 -830.9
			C:	HQ-NY-765-New					1887				
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.01312	0.01877	754.7	805.7
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.01312	0.01632	657.2	701.6
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA				
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.01755	-23.1	-70.8
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA				
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.06193	0.00000	-157.9	-157.9
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA				
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA				
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch					
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch					
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch					
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch					
3759	2748.2	9158.4	L:	137200 EDIC	345	147833 MARCY T1	345	1		866.2	1793.0	0.33723	0.23895 191.7 848.3
			C:	SIN:150					1779				
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.69020	0.14240	885.3	1276.7
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.59325	0.00000	106.9	106.9
				Open 137235 PORTER 1	115	147905 ILION	115	1		0.00187	-0.00536	54.3	39.5
3760	2748.2	9158.4	L:	137200 EDIC	345	147833 MARCY T1	345	1		866.2	1793.0	0.33723	0.23895 191.7 848.3
			C:	SIN:160					1780				
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.69020	0.14240	885.3	1276.7
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.59303	0.00000	106.9	106.9
				Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00280	-0.00474	47.5	34.5
3761	2749.4	9159.7	L:	Interface 73 MarcySouthS						2020.8	3048.0	0.37359	0.33068 1755.3 2664.5
			C:	BUS:N.S._99					1725				
				Open 137453 N.SCOT99	345	137728 PRINCETW	345	1		-0.09791	-0.11328	-438.4	-749.8
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.10732	-0.03741	-446.9	-549.8
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.16113	-0.15077	-979.1	-1393.7
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.01555	0.00151	272.8	277.0
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-0.02607	-0.13561	-810.0	-1182.9
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.00658	0.00000	4.6	4.6
3762	2752.4	9162.7	L:	137451 LEEDS 3	345	147831 GILB 345	345	1		-1373.8	-1912.0	-0.19555	-0.13319 -1016.3 -1382.9
			C:	BUS:N.S._77					1724				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.20852	-0.16434	-777.1	-1229.4
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.17642	0.00098	256.5	259.2
				Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA				
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.22956	0.14240	885.3	1277.3
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.13806	-0.03205	-14.7	-102.9
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.00000	-0.13527	-809.9	-1182.3
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.15792	0.00000	-250.0	-250.0
3763	2757.9	9168.1	L:	131122 WTHRS230	230	134750 DAIRY230	230	1		380.6	540.0	0.05781	0.05001 327.0 464.9
			C:	95593 CHERYFLT	345	200769 HOMER CY	345	1	1458				
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.10192	-0.07651	-525.8	-736.8
3764	2766.0	9176.2	L:	137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1150.0	-1724.0	-0.20752	-0.13561 -810.0 -1185.1
			C:	137452 N.SCOT77	345	137453 N.SCOT99	345	1	1087				
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.43755	-0.16434	-777.1	-1231.6
3767	2772.4	9182.6	L:	95976 STONYCRK	230	131122 WTHRS230	230	1		373.1	540.0	0.06019	0.04992 316.3 454.7
			C:	SER:HCWC/NWES					1717				
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		-0.02617	-0.02180	54.2	-6.3
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA				

## UPNY-SENY

			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10267	-0.09596	-570.2	-836.3	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00753	-0.01945	-44.4	-98.3	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3769	2773.2	9183.4	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		374.4	540.0	0.05970	0.04992	316.3	454.8
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	281						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1							
3771	2780.4	9190.6	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1083.5	-1703.0	-0.22280	-0.21470	-1020.9	-1617.8
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	183						
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1							
3772	2783.8	9194.1	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1		-515.9	-707.0	-0.06866	-0.03767	-408.3	-513.2
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	70						
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1							
3773	2794.5	9204.7	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1080.9	-1703.0	-0.22260	-0.21470	-1020.9	-1620.9
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	2	184						
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	2							
3774	2795.0	9205.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		373.2	540.0	0.05967	0.04992	316.3	455.8
			C:SER:HC-WC_30&W-F_171						1711						
			Open 135277 FALCONER	115	200579	WARREN	115	1							
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10147	-0.09596	-570.2	-838.4		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00770	-0.01945	-44.4	-98.8		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3775	2807.6	9217.8	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		367.9	540.0	0.06131	0.04992	316.3	456.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1325						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1							
3776	2812.6	9222.9	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1078.2	-1703.0	-0.22213	-0.21470	-1020.9	-1624.7
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	185						
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1							
3777	2820.7	9230.9	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1252.8	-1792.0	-0.19115	-0.15077	-979.1	-1404.4
			C:SIN:150						1779						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1		-0.28352	0.14240	885.3	1287.0		
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1		-0.21208	0.00000	106.9	106.9		
			Open 137235 PORTER 1	115	147905	ILION	115	1		-0.00025	-0.00536	54.3	39.1		
3778	2820.7	9230.9	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1252.8	-1792.0	-0.19114	-0.15077	-979.1	-1404.4
			C:SIN:160						1780						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1		-0.28352	0.14240	885.3	1287.0		
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1		-0.21205	0.00000	106.9	106.9		
			Open 137235 PORTER 1	115	137246	VALLEY	115	1		-0.00037	-0.00474	47.5	34.2		
3779	2822.0	9232.3*L:	130750 COOPC345	345	130753	FRASR345	345	1		-1037.8	-1703.0	-0.23573	-0.21470	-1020.9	-1626.8
			C:137200 EDIC	345	147833	MARCY T1	345	1	1029						
			Open 137200 EDIC	345	147833	MARCY T1	345	1							
3780	2828.6	9238.8	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1255.7	-1792.0	-0.18961	-0.15077	-979.1	-1405.6
			C:137728 PRINCETW	345	999837	JORDNVLL	345	1	1199						
			Open 137728 PRINCETW	345	999837	JORDNVLL	345	1							
3782	2856.3	9266.5	L: 137200 EDIC	345	147833	MARCY T1	345	1		832.7	1793.0	0.33620	0.23895	191.7	874.2
			C:136156 VOLNEY	345	147833	MARCY T1	345	1	811						
			Open 136156 VOLNEY	345	147833	MARCY T1	345	1							
3787	2895.7	9305.9	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		371.4	540.0	0.05823	0.04992	316.3	460.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1							
3788	2897.4	9307.6	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-369.8	-540.0	-0.05875	-0.05707	-338.7	-504.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	462						
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1							
3789	2898.3	9308.6	L: 130836 N.WAV115	115	131018	LOUNSI15	115	1		49.2	173.0	0.04272	0.02800	17.4	98.5
			C:130755 OAKDL345	345	130757	WATRC345	345	1	274						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1							
3790	2904.1	9314.4	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1247.2	-1792.0	-0.18759	-0.15077	-979.1	-1417.0
			C:147833 MARCY T1	345	999837	JORDNVLL	345	1	1320						
			Open 147833 MARCY T1	345	999837	JORDNVLL	345	1							
3791	2908.3	9318.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		375.1	540.0	0.05671	0.05001	327.0	472.4
			C:130754 KINTI345	345	149000	ROCH 345	345	1	273						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1							
3794	2919.7	9330.0	L: 130753 FRASR345	345	147831	GILB 345	345	1		752.6	1524.0	0.26421	0.17060	307.5	805.6

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			C:130750 COOPC345	345	130753 FRASR345	345	1	259											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
3795	2946.5	9356.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1												
			C:135272-135289					1890											
			Open 135289 NILE115	115	147949 WELLSVLE	115	1												
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1												
			Open 135272 DUGN-157	115	135289 NILE115	115	1												
3796	2946.9	9357.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1												
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1458											
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
3798	2949.5	9359.7	L: Interface	73	MarcySouthS														
			C:BUS:N.S._77					1724											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1												
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1												
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1												
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1												
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1												
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2												
3805	2979.4	9389.7	L: 130757 WATRC345	345	135249 ARMENMTN	345	1												
			C:GEN:9 MI PT2					1671											
			Remove unit 2 from bus	136700	9M PT 2G	25.0		1126.9	MW	dispatch									
3811	2994.8	9405.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1												
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1027											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1												
3812	2995.5	9405.7	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1												
			Base Case																
3813	2997.4	9407.6	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1												
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	63											
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1												
3814	2997.5	9407.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2												
			C:137451 LEEDS 3	345	137455 ATHENS	345	1	1085											
			Open 137451 LEEDS 3	345	137455 ATHENS	345	1												
3815	2998.3	9408.5	L: 95646 DEANWIND	230	130772 SHRED230	230	1												
			C:130755 OAKDL345	345	130757 WATRC345	345	1	274											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1												
3816	2998.6	9408.8	L: 125000 HURLEY 3	345	125030 HURLEY 1	115	1												
			C:125000 HURLEY 3	345	125002 ROSETON	345	1	61											
			Open 125000 HURLEY 3	345	125002 ROSETON	345	1												

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, JUL 15 2011 22:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 5616  
 First violation - -1434.2 MW.

Study transfer. From G\_EXPORT To HI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 5616 violations

Interface-1 Interface 12 UPNY-CONED-O Init.Flow= 6048.75 TDF= 0.9671

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=			
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init Final			
1	-1434.2	4661.8	L: 125015 AC CBLTP	115 125041 N.CHELSE	115 1	295.7	240.0	0.03882	0.01978	150.3	121.9
			C:125020 DANSKAMA	115 125021 DC CBLTP	115 1	86					
			Open 125020 DANSKAMA	115 125021 DC CBLTP	115 1		0.92906	0.02050	156.5	127.1	
2	-1429.2	4666.6	L: 125015 AC CBLTP	115 125041 N.CHELSE	115 1	295.5	240.0	0.03882	0.01978	150.3	122.0
			C:125021 DC CBLTP	115 125041 N.CHELSE	115 1	90					
			Open 125021 DC CBLTP	115 125041 N.CHELSE	115 1		0.92906	0.02050	156.3	127.0	
3	500.3	6532.6	L: 125021 DC CBLTP	115 125041 N.CHELSE	115 1	296.5	316.0	0.03892	0.02050	156.3	166.5
			C:125015 AC CBLTP	115 125020 DANSKAMA	115 1	76					
			Open 125015 AC CBLTP	115 125020 DANSKAMA	115 1		-0.93137	-0.01978	-150.6	-160.5	
4	507.2	6539.3	L: 125021 DC CBLTP	115 125041 N.CHELSE	115 1	296.3	316.0	0.03892	0.02050	156.3	166.7
			C:125015 AC CBLTP	115 125041 N.CHELSE	115 1	77					
			Open 125015 AC CBLTP	115 125041 N.CHELSE	115 1		0.93137	0.01978	150.3	160.3	
5	533.5	6564.7	L: 125002 ROSETON	345 125190 ROSE GN1	24.0 1	-414.4	-614.0	-0.37405			
			Base Case								
6	564.0	6594.2	L: 125002 ROSETON	345 125192 ROSE GN2	24.0 2	-416.2	-614.0	-0.35076			
			Base Case								
7	804.5	6826.8	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:SEAB&OMS		1685						
			Open 100508 SANDB115	115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869	SBRK G1	25.0 1318.0 MW	dispatch					
8	804.5	6826.8	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:SEABROOK		1683						
			Remove unit 1 from bus 102869	SBRK G1	25.0 1318.0 MW	dispatch					
9	804.6	6826.8	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:MLS3&OMS		1684						
			Open 100508 SANDB115	115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563	MILL#3	24.0 1276.0 MW	dispatch					
10	804.6	6826.8	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:MILLST 3		1682						
			Remove unit 3 from bus 103563	MILL#3	24.0 1276.0 MW	dispatch					
11	804.8	6827.0	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:9 MI PT2		1671						
			Remove unit 2 from bus 136700	9M PT 2G	25.0 1126.9 MW	dispatch					
12	804.8	6827.1	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:SALEM		1677						
			Remove unit 1 from bus 36	SALEM-G1	22.0 1107.4 MW	dispatch					
13	804.9	6827.1	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:PEACHBTM		1678						
			Remove unit 1 from bus 34	PCHBTM 2	22.0 1051.0 MW	dispatch					
14	804.9	6827.1	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7
			C:GEN:IND PT 3		1665						
			Remove unit 1 from bus 147798	IP#3 GEN	22.0 1040.4 MW	dispatch					
15	804.9	6827.2	L: 120701 STARS-00701	13.8 125001 ROCK TAV	345 01	149.9	300.0	0.18654	0.18654	149.6	299.7



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			C:GEN:IND PT 2			1664							
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch							
16	805.1	6827.4	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345 01	149.8	300.0	0.18654	0.18654	149.6	299.8	
			C:GEN:FITZPATR			1669							
			Open 136155 SCRIBA	345	147830 JA FITZP	345 1			0.00000	-0.00007	-60.1	-60.1	
			Open 137200 EDIC	345	147830 JA FITZP	345 1			0.00000	0.00000	42.1	42.1	
			Remove unit 1 from bus 147797 JAFITZ1G	24.0	851.5 MW	dispatch							
167	806.3	6828.5	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345 01	149.6	300.0	0.18654				
			Base Case										
1874	1263.0	7270.2	L: 125015 AC CBLTP	115	125020 DANSKAMA	115 1	-296.0	-345.0	-0.03882	-0.01978	-150.6	-175.6	
			C:125020 DANSKAMA	115	125021 DC CBLTP	115 1	86						
			Open 125020 DANSKAMA	115	125021 DC CBLTP	115 1			-0.92906	0.02050	156.5	182.4	
1875	1267.9	7275.0	L: 125015 AC CBLTP	115	125020 DANSKAMA	115 1	-295.8	-345.0	-0.03882	-0.01978	-150.6	-175.7	
			C:125021 DC CBLTP	115	125041 N.CHELSE	115 1	90						
			Open 125021 DC CBLTP	115	125041 N.CHELSE	115 1			-0.92906	0.02050	156.3	182.3	
1876	1368.5	7372.2	L: 125020 DANSKAMA	115	125021 DC CBLTP	115 1	296.7	350.0	0.03892	0.02050	156.5	184.5	
			C:125015 AC CBLTP	115	125020 DANSKAMA	115 1	76						
			Open 125015 AC CBLTP	115	125020 DANSKAMA	115 1			-0.93137	-0.01978	-150.6	-177.6	
1877	1375.4	7378.9	L: 125020 DANSKAMA	115	125021 DC CBLTP	115 1	296.5	350.0	0.03892	0.02050	156.5	184.7	
			C:125015 AC CBLTP	115	125041 N.CHELSE	115 1	77						
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115 1			0.93137	0.01978	150.3	177.5	
1878	1542.4	7540.4	L: 125002 ROSETON	345	126281 FISHKILL	345 1	1252.6	1935.0	0.44242				
			Base Case										
1879	1703.6	7696.3	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8 2	-46.5	-104.0	-0.03372				
			Base Case										
1880	1800.9	7790.4	L: 125015 AC CBLTP	115	125041 N.CHELSE	115 1	183.3	240.0	0.03146	0.01978	150.3	185.9	
			C:125002 ROSETON	345	126281 FISHKILL	345 1	71						
			Open 125002 ROSETON	345	126281 FISHKILL	345 1			0.02640	0.44242	1252.6	2049.4	
1881	1800.9	7790.4	L: 125015 AC CBLTP	115	125041 N.CHELSE	115 1	183.3	240.0	0.03146	0.01978	150.3	185.9	
			C:SIN:430			1792							
			Open 125002 ROSETON	345	126281 FISHKILL	345 1			0.02640	0.44242	1252.6	2049.4	
1882	1869.2	7856.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-420.8	-1120.0	-0.37405	-0.37405	-414.4	-1113.6	
			C:SIN:250			1787							
			Open 100508 SANDB115	115	100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
1883	1872.4	7859.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8	
			C:SIN:120			1777							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00000	-0.16250	845.3	541.0	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00000	-0.16250	845.3	541.0	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345 1			0.00000	0.47310	40.6	926.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345 1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
1884	1872.4	7859.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8	
			C:SIN:130			1778							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00000	-0.16250	845.3	541.0	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00000	-0.16250	845.3	541.0	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345 1			0.00000	0.47310	40.6	926.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345 1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 1	NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
1885	1883.8	7870.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0	
			C:GEN:SEABROOK			1683							
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
1886	1883.8	7870.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0	
			C:GEN:SEAB&OMS			1685							
			Open 100508 SANDB115	115	100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
1887	1883.8	7870.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1	
			C:GEN:MILLST 3			1682							
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
1888	1883.8	7870.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0 1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1	
			C:GEN:MLS3&OMS			1684							

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				Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
1889	1884.1	7870.9	L:	125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:	GEN:9 MI PT2				1671						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch							
1890	1884.2	7870.9	L:	125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:	GEN:SALEM				1677						
				Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch							
1891	1884.3	7871.0	*L:	125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:	GEN:PEACHBTM				1678						
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch							
3748	1915.6	7901.3	L:	125001 ROCK TAV	345	125002 ROSETON	345	1	-901.4	-1870.0	-0.50563	-0.22308	-101.5	-528.8
			C:	125002 ROSETON	345	126281 FISHKILL	345	1	71					
				Open 125002 ROSETON	345	126281 FISHKILL	345	1	-0.63864	0.44242	1252.6	2100.1		
3749	1915.6	7901.3	L:	125001 ROCK TAV	345	125002 ROSETON	345	1	-901.4	-1870.0	-0.50563	-0.22308	-101.5	-528.8
			C:	SIN:430				1792						
				Open 125002 ROSETON	345	126281 FISHKILL	345	1	-0.63864	0.44242	1252.6	2100.1		
3750	2003.9	7986.7	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.0
			C:	GEN:SEABROOK				1683						
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
3751	2003.9	7986.7	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.0
			C:	GEN:SEAB&OMS				1685						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0		
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
3752	2004.0	7986.8	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.1
			C:	GEN:MLS3&OMS				1684						
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0		
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
3753	2004.0	7986.8	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.1
			C:	GEN:MILLST 3				1682						
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
3754	2004.3	7987.1	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.0	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
			C:	GEN:9 MI PT2				1671						
				Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW	dispatch							
3755	2004.3	7987.1	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.0	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
			C:	GEN:SALEM				1677						
				Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch							
3756	2004.4	7987.2	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
			C:	GEN:PEACHBTM				1678						
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch							
3757	2004.5	7987.3	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
			C:	GEN:IND PT 3				1665						
				Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
3758	2004.5	7987.3	L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.3
			C:	GEN:IND PT 2				1664						
				Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch							
3759	2004.8	7987.6	*L:	125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.8	-1120.0	-0.35076	-0.35076	-416.2	-1119.4
			C:	GEN:FITZPATR				1669						
				Open 136155 SCRIBA	345	147830 JA FITZP	345	1	0.00000	-0.00007	-60.1	-60.2		
				Open 137200 EDIC	345	147830 JA FITZP	345	1	0.00000	0.00000	42.1	42.1		
				Remove unit 1 from bus 147797 JAFITZ1G	24.0	851.5 MW	dispatch							
5616	2889.8	8843.5	L:	125002 ROSETON	345	126281 FISHKILL	345	1	1335.0	3137.0	0.62357	0.44242	1252.6	2531.1
			C:	125001 ROCK TAV	345	125002 ROSETON	345	1	64					
				Open 125001 ROCK TAV	345	125002 ROSETON	345	1	-0.81202	-0.22308	-101.5	-746.1		

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, AUG 05 2011 14:47  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 5000.0 MW. Total violations: 11244  
 First violation - -1315.5 MW.

Study transfer. From GH\_EXPORT To I\_IMPORT . Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 11244 violations

Interface-1 Interface 13 MILW-SOUTH-C Init.Flow= 9993.02 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	-1315.5	8677.5	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1 C:125020 DANSKAMA 115 125021 DC CBLTP 115 1 86 Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1	295.7	240.0	0.04232	0.02156	150.3 121.9
2	-1311.0	8682.0	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1 C:125021 DC CBLTP 115 125041 N.CHELSE 115 1 90 Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1	295.5	240.0	0.04232	0.02156	150.3 122.0
3	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:137728 PRINCETW 345 999837 JORDNVLL 345 1 1199 Open 137728 PRINCETW 345 999837 JORDNVLL 345 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
4	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:MULT02 1764 Open 6 DEANS 500 28 WINDSOR 500 1 Open 6 DEANS 500 4978 DEANS 230 1 Open 28 WINDSOR 500 2896 E WINDSR 230 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
5	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:129418 CAITHNESS1 138 129461 SILLS RD2 138 1 1576 Open 129418 CAITHNESS1 138 129461 SILLS RD2 138 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
6	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:136808 THOU ISL 115 136817 CLAYTON 115 1 1014 Open 136808 THOU ISL 115 136817 CLAYTON 115 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
7	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:137849 FAGE DRY 115 137886 INGHAM-E 115 1 1203 Open 137849 FAGE DRY 115 137886 INGHAM-E 115 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
8	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:135438 CLSP-54 115 135494 COOPER 115 1 634 Open 135438 CLSP-54 115 135494 COOPER 115 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
9	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:136161 BELMNT13 115 136211 HPKNS-13 115 1 816 Open 136161 BELMNT13 115 136211 HPKNS-13 115 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
10	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:129265 CARLE PL 138 129270 E.G.C. 138 1 1521 Open 129265 CARLE PL 138 129270 E.G.C. 138 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
11	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:126266 DUNWODIE 345 126298 SPRBROOK 345 1 155 Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
12	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C: 101 R TAV SW 345 125001 ROCK TAV 345 1 1 Open 101 R TAV SW 345 125001 ROCK TAV 345 1	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
1543	355.6	10348.6	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 Base Case	44.8	-300.0	-0.96970	0.00000	-0.0 -0.0
1868	458.9	10451.9	L: 125021 DC CBLTP 115 125041 N.CHELSE 115 1 C:125015 AC CBLTP 115 125020 DANSKAMA 115 1 76 Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1	296.5	316.0	0.04243	0.02235	156.3 166.5
								-0.93137 -0.02156 -150.6 -160.5

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1869	465.2	10458.3	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	296.3	316.0	0.04243	0.02235	156.3	166.7
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1	77					
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1			0.93137	0.02156	150.3	160.3
1870	599.5	10592.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-414.4	-614.0	-0.33292			
			Base Case										
1871	633.7	10626.7	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.2	-614.0	-0.31219			
			Base Case										
1872	903.9	10896.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SEABROOK					1683					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
1873	903.9	10896.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SEAB&OMS					1685					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
1874	904.0	10897.0	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:MILLST 3					1682					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch					
1875	904.0	10897.0	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:MLS3&OMS					1684					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch					
1876	904.2	10897.2	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:9 MI PT2					1671					
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9 MW			dispatch					
1877	904.2	10897.2	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SALEM					1677					
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW			dispatch					
1878	904.3	10897.3	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7
			C:GEN:IND PT 3-New					1884					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			0.00000	0.02785	506.2	531.3
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			-0.00025	-0.05540	-1009.3	-1059.4
1879	904.3	10897.3	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:PEACHBTM					1678					
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW			dispatch					
1880	904.3	10897.3	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:IND PT 3					1665					
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW			dispatch					
1881	904.3	10897.3	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7
			C:GEN:IND PT 2-New					1883					
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1			0.00000	-0.02729	-493.4	-518.0
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2			-0.00025	-0.05457	-986.7	-1036.1
3635	905.9	10898.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.6	300.0	0.16603			
			Base Case										
3739	1158.5	11151.5	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-296.0	-345.0	-0.04232	-0.02156	-150.6	-175.6
			C:125020 DANSKAMA	115	125021 DC CBLTP	115	1	86					
			Open 125020 DANSKAMA	115	125021 DC CBLTP	115	1			-0.92906	0.02235	156.5	182.4
3740	1163.1	11156.1	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-295.8	-345.0	-0.04232	-0.02156	-150.6	-175.7
			C:125021 DC CBLTP	115	125041 N.CHELSE	115	1	90					
			Open 125021 DC CBLTP	115	125041 N.CHELSE	115	1			-0.92906	0.02235	156.3	182.3
3741	1255.3	11248.3	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	296.7	350.0	0.04243	0.02235	156.5	184.5
			C:125015 AC CBLTP	115	125020 DANSKAMA	115	1	76					
			Open 125015 AC CBLTP	115	125020 DANSKAMA	115	1			-0.93137	-0.02156	-150.6	-177.6
3742	1261.7	11254.7	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	296.5	350.0	0.04243	0.02235	156.5	184.7
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1	77					
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1			0.93137	0.02156	150.3	177.5
3743	1287.4	11280.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1252.6	1935.0	0.53003			
			Base Case										
3744	1593.4	11586.4	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	183.3	240.0	0.03555	0.02156	150.3	184.6
			C:SIN:430					1792					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.02640	0.53003	1252.6	2097.2
3745	1593.4	11586.4	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	183.3	240.0	0.03555	0.02156	150.3	184.6
			C:125002 ROSETON	345	126281 FISHKILL	345	1	71					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.02640	0.53003	1252.6	2097.2
3746	1914.1	11907.1	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.5	-104.0	-0.03001			
			Base Case										

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3747	2100.2	12093.2	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-420.8	-1120.0	-0.33292	-0.33292	-414.4	-1113.6
			C:SIN:250				1787						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000			-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
3748	2103.7	12096.8	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:120				1777						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	0.00000	0.09476			845.3	1044.7
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	0.00000	0.09476			845.3	1044.7
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	0.00000	-0.05540			40.6	-75.9
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus 147798 IP#3 GEN			22.0	1040.4 MW	dispatch					
3749	2103.7	12096.8	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:130				1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	0.00000	0.09476			845.3	1044.7
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	0.00000	0.09476			845.3	1044.7
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	0.00000	-0.05540			40.6	-75.9
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus 147798 IP#3 GEN			22.0	1040.4 MW	dispatch					
3750	2116.5	12109.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.33292	-0.33292	-414.4	-1119.0
			C:GEN:SEAB&OMS				1685						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000			-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0 MW	dispatch					
3751	2116.5	12109.5	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.33292	-0.33292	-414.4	-1119.0
			C:GEN:SEABROOK				1683						
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0 MW	dispatch					
3752	2116.6	12109.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.33292	-0.33292	-414.4	-1119.1
			C:GEN:MILLST 3				1682						
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
3753	2116.6	12109.6	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.33292	-0.33292	-414.4	-1119.1
			C:GEN:MLS3&OMS				1684						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000			-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
3754	2116.9	12109.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.33292	-0.33292	-414.4	-1119.2
			C:GEN:9 MI PT2				1671						
			Remove unit 2 from bus 136700 9M PT 2G			25.0	1126.9 MW	dispatch					
3755	2116.9	12109.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.33296	-0.33292	-414.4	-1119.2
			C:GEN:IND PT 3-New				1884						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	0.00000	0.02785			506.2	565.1
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	0.00072	-0.05540			-1009.3	-1126.6
3756	2117.0	12110.0*	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.33292	-0.33292	-414.4	-1119.2
			C:GEN:SALEM				1677						
			Remove unit 1 from bus 36 SALEM-G1			22.0	1107.4 MW	dispatch					
5613	2251.5	12244.5	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.31219	-0.31219	-416.2	-1119.0
			C:GEN:SEAB&OMS				1685						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000			-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0 MW	dispatch					
5614	2251.5	12244.5	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.31219	-0.31219	-416.2	-1119.0
			C:GEN:SEABROOK				1683						
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0 MW	dispatch					
5615	2251.6	12244.6	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.31219	-0.31219	-416.2	-1119.1
			C:GEN:MLS3&OMS				1684						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00000	0.00000			-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
5616	2251.6	12244.6	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.31219	-0.31219	-416.2	-1119.1
			C:GEN:MILLST 3				1682						
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0 MW	dispatch					
5617	2251.9	12244.9	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.31223	-0.31219	-416.2	-1119.2
			C:GEN:IND PT 3-New				1884						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	0.00000	0.02785			506.2	568.9
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	0.00073	-0.05540			-1009.3	-1134.1
5618	2251.9	12244.9	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.0	-1120.0	-0.31219	-0.31219	-416.2	-1119.2

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			C:GEN:9 MI PT2				1671													
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW	dispatch													
5619	2252.0	12245.0	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.31223		-0.31219	-416.2	-1119.2					
			C:GEN:IND PT 2-New																	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1				0.00000	-0.02729	-493.4	-554.8					
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2				0.00073	-0.05457	-986.7	-1109.6					
5620	2252.0	12245.0	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2	-417.0	-1120.0	-0.31219		-0.31219	-416.2	-1119.2					
			C:GEN:SALEM																	
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW	dispatch													
5621	2252.1	12245.1	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.31219		-0.31219	-416.2	-1119.2					
			C:GEN:PEACHBTM																	
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0	MW	dispatch													
5622	2252.1	12245.1	*L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.31219		-0.31219	-416.2	-1119.2					
			C:GEN:IND PT 3																	
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch													
7479	2399.5	12392.5	L: 125001 ROCK TAV	345	125002	ROSETON	345	1	-901.4	-1870.0	-0.40366		-0.06516	-101.5	-257.8					
			C:125002 ROSETON	345	126281	FISHKILL	345	1												
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.63864	0.53003	1252.6	2524.4					
7480	2399.5	12392.5	L: 125001 ROCK TAV	345	125002	ROSETON	345	1	-901.4	-1870.0	-0.40366		-0.06516	-101.5	-257.8					
			C:SIN:430																	
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				-0.63864	0.53003	1252.6	2524.4					
7481	2497.9	12490.9	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-9.9	2384.0	0.95834		0.52882	-824.2	496.7					
			C:126281 FISHKILL	345	126292	PL VILLE	345	1												
			Open 126281 FISHKILL	345	126292	PL VILLE	345	1				0.98782	0.43482	824.4	1910.5					
7482	2556.5	12549.5	L: 126281 FISHKILL	345	126292	PL VILLE	345	1	824.4	1936.0	0.43482									
			Base Case																	
7483	2697.2	12690.3	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1591.3	3137.0	0.57308		0.53003	1252.6	2682.2					
			C:SIN:120																	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.24988	0.09476	845.3	1100.9					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.24988	0.09476	845.3	1100.9					
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.07789	-0.05540	40.6	-108.8					
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2												
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch													
7484	2697.2	12690.3	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1591.3	3137.0	0.57308		0.53003	1252.6	2682.2					
			C:SIN:130																	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.24988	0.09476	845.3	1100.9					
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.24988	0.09476	845.3	1100.9					
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.07789	-0.05540	40.6	-108.8					
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2												
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch													
7485	2824.0	12817.0	L: 126298 SPRBROOK	345	126373	DUN SO N7	138	7	382.2	497.0	0.04064		0.00176	311.2	316.2					
			C:126266 DUNWODIE	345	126298	SPRBROOK	345	1												
			Open 126266 DUNWODIE	345	126298	SPRBROOK	345	1				-0.09157	-0.42447	-775.8	-1974.5					
7486	2824.0	12817.0	L: 126372 DUN SO	138	126373	DUN SO N7	138	1	-382.2	-497.0	-0.04064		-0.00176	-311.2	-316.2					
			C:126266 DUNWODIE	345	126298	SPRBROOK	345	1												
			Open 126266 DUNWODIE	345	126298	SPRBROOK	345	1				0.09157	-0.42447	-775.8	-1974.6					
7487	2968.0	12961.0	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1484.9	3137.0	0.55663		0.53003	1252.6	2825.7					
			C:SIN:280																	
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				0.17816	0.13453	1122.5	1521.8					
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1				0.01166	0.12518	895.4	1266.9					
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1				-0.12274	0.00000	1.8	1.8					
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16668	0.00703	132.8	153.6					
7488	2973.3	12966.4	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1454.1	3137.0	0.56598		0.53003	1252.6	2828.6					
			C:SIN:230																	
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.25915	-0.13413	-690.9	-1089.7					
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16940	0.00703	132.8	153.7					
7489	3012.6	13005.7	L: 126263 BUCHANAN S	345	126291	MILLWOOD	345	1	1496.6	2002.0	0.16777		0.09476	845.3	1130.8					
			C:126263 BUCHANAN S	345	126291	MILLWOOD	345	2												
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.77041	0.09476	845.3	1130.8					
7490	3012.6	13005.7	L: 126263 BUCHANAN S	345	126291	MILLWOOD	345	2	1496.6	2002.0	0.16777		0.09476	845.3	1130.8					
			C:126263 BUCHANAN S	345	126291	MILLWOOD	345	1												

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			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1		0.77041	0.09476	845.3	1130.8		
7491	3012.9	13005.9	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1302.4	-3418.0	-0.70219	-0.42447	-775.8	-2054.7	
			C:126281 FISHKILL	345	126292 PL VILLE	345	1	171						
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1							
7492	3037.5	13030.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1425.2	3137.0	0.56355	0.43482	824.4	2134.4	
			C:126263 BUCHANAN S	345	126290 LADENTWN	345	1	149			0.53003	1252.6	2862.6	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1							
7493	3057.4	13050.4	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1445.7	3137.0	0.55317	0.53003	1252.6	2873.1	
			C:126262 BUCHANAN N	345	126267 E VIEW 2N	345	1	145						
			Open 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1				0.17202	0.13453	1122.5	1533.8
7494	3060.0	13053.1	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1444.1	3137.0	0.55323	0.53003	1252.6	2874.5	
			C:SER:W93&W79					1686						
			Open 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1				0.16110	0.13453	1122.5	1534.2
			Open 126267 E VIEW 2N	345	126298 SPRBROOK	345	1				0.01214	0.12518	895.4	1278.4
			Open 126267 E VIEW 2N	345	126378 EASTVIEW	138	1				-0.11827	0.00000	1.8	1.8
7495	3091.2	13084.2	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1335.0	3137.0	0.58294	0.53003	1252.6	2891.1	
			C:125001 ROCK TAV	345	125002 ROSETON	345	1	64						
			Open 125001 ROCK TAV	345	125002 ROSETON	345	1				-0.81202	-0.06516	-101.5	-302.9
7496	3110.4	13103.4	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1407.8	3137.0	0.55595	0.53003	1252.6	2901.2	
			C:125001 ROCK TAV	345	126297 RAMAPO	345	2	68						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	2				0.25144	0.10309	617.0	937.7
7497	3110.5	13103.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1407.7	3137.0	0.55595	0.53003	1252.6	2901.3	
			C:SIN:440					1793						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.25144	0.10309	616.9	937.5
7518	3404.5	13397.5	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	190.6	316.0	0.03685	0.02235	156.3	232.4	
			C:125002 ROSETON	345	126281 FISHKILL	345	1	71						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02736	0.53003	1252.6	3057.1
7519	3404.5	13397.5	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	190.6	316.0	0.03685	0.02235	156.3	232.4	
			C:SIN:430					1792						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02736	0.53003	1252.6	3057.1
7521	3415.3	13408.3	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	18.9	3269.0	0.95162	0.43482	824.4	2309.4	
			C:126266 DUNWODIE	345	126292 PL VILLE	345	1	153						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				0.97728	0.52882	-824.2	981.9
7522	3415.4	13408.4	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	18.9	3269.0	0.95162	0.43482	824.4	2309.5	
			C:SER:W89&W73					1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				0.97728	0.52882	-824.2	981.9
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				-0.00018	-0.00176	331.8	325.8
7595	3535.7	13528.8	L: 126368 DUN NO	138	126369 DUN NO S6	138	1	-359.6	-497.0	-0.03886	-0.00175	-291.7	-297.9	
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	155						
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1				0.08744	-0.42447	-775.8	-2276.7
7596	3535.7	13528.8	L: 126298 SPRBROOK	345	126369 DUN NO S6	138	6	359.6	497.0	0.03886	0.00175	291.7	297.9	
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	155						
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1				-0.08744	-0.42447	-775.8	-2276.7
9348	4043.0	14036.1	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.7	-168.0	-0.03001	-0.03001	-46.5	-167.9	
			C:GEN:SEAB&OMS					1685						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch						
9349	4043.0	14036.1	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.7	-168.0	-0.03001	-0.03001	-46.5	-167.9	
			C:GEN:SEABROOK					1683						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch						
9350	4043.2	14036.2	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9	
			C:GEN:MLS3&OMS					1684						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch						
9351	4043.2	14036.2	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9	
			C:GEN:MILLST 3					1682						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch						
9352	4043.3	14036.3	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03002	-0.03001	-46.5	-167.9	
			C:GEN:IND PT 3-New					1884						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1				0.00000	0.02785	506.2	618.7
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2				0.00008	-0.05540	-1009.3	-1233.3
9353	4043.3	14036.4	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03002	-0.03001	-46.5	-167.9	
			C:GEN:IND PT 2-New					1883						
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1				0.00000	-0.02729	-493.4	-603.7
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2				0.00008	-0.05457	-986.7	-1207.4

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9354	4043.5	14036.6	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:9 MI PT2									1671	
			Remove unit 2 from bus	136700	9M PT 2G	25.0	1126.9	MW	dispatch				
9355	4043.6	14036.6	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:SALEM									1677	
			Remove unit 1 from bus	36	SALEM-G1	22.0	1107.4	MW	dispatch				
9356	4043.7	14036.8	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:PEACHBTM									1678	
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1051.0	MW	dispatch				
9357	4043.8	14036.8	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:IND PT 3									1665	
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
11217	4085.4	14078.4	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-775.8	-2510.0	-0.42447			
			Base Case										
11222	4250.9	14243.9	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1075.2	-3418.0	-0.55113	-0.42447	-775.8	-2580.2
			C:SIN:430									1792	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.23897	0.53003	1252.6 3505.7
11223	4250.9	14243.9	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1075.2	-3418.0	-0.55113	-0.42447	-775.8	-2580.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1					71	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.23897	0.53003	1252.6 3505.7
11224	4321.6	14314.6	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	190.8	350.0	0.03685	0.02235	156.5	253.1
			C:SIN:430									1792	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02736	0.53003	1252.6 3543.2
11225	4321.6	14314.6	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	190.8	350.0	0.03685	0.02235	156.5	253.1
			C:125002 ROSETON	345	126281 FISHKILL	345	1					71	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02736	0.53003	1252.6 3543.2
11226	4332.4	14325.5	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1289.6	-3418.0	-0.49128	-0.42447	-775.8	-2614.8
			C:126293 PL VILLW	345	126305 WOOD A	345	1					181	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.64704	-0.10325	-793.9 -1241.3
11227	4359.7	14352.7	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1280.8	-3418.0	-0.49021	-0.42447	-775.8	-2626.4
			C:BUS:PLVILLW_345									1729	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.64974	-0.10325	-793.9 -1244.1
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.22300	0.00606	43.1 69.5
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				0.70546	0.00000	1.8 1.8
11228	4396.7	14389.8	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1260.9	-3418.0	-0.49061	-0.42447	-775.8	-2642.1
			C:BUS:WOODA_345									1727	
			Open 126305 WOOD A	345	130758 WOODA345	345	1				0.78563	-0.00303	134.1 120.8
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				-0.63619	0.10022	928.0 1368.7
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.70248	0.00000	0.0 0.0
11229	4396.7	14389.8	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1260.9	-3418.0	-0.49061	-0.42447	-775.8	-2642.1
			C:SER:F39&Y87									1692	
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				0.14944	0.10022	928.0 1368.7
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.78563	-0.10325	-793.9 -1247.9
			Open 126305 WOOD A	345	130758 WOODA345	345	1			NA			
			Open 130758 WOODA345	345	130865 WOODS115	115	1				-0.08315	0.00000	0.0 0.0
11230	4443.0	14436.0	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1255.5	-3418.0	-0.48672	-0.42447	-775.8	-2661.8
			C:126266 DUNWODIE	345	126293 PL VILLW	345	1					154	
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				0.64040	-0.09719	-749.1 -1180.9
11231	4469.1	14462.1	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1278.4	-3418.0	-0.47875	-0.42447	-775.8	-2672.9
			C:126281 FISHKILL	345	126305 WOOD A	345	1					174	
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				-0.54155	0.10022	928.0 1376.0
11232	4499.9	14492.9	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	965.4	3269.0	0.51193	0.43482	824.4	2781.0
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1					155	
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1				-0.18167	-0.42447	-775.8 -2685.9
11233	4538.6	14531.6	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-183.6	-345.0	-0.03555	-0.02156	-150.6	-248.4
			C:SIN:430									1792	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.02640	0.53003	1252.6 3658.2
11234	4538.6	14531.6	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-183.6	-345.0	-0.03555	-0.02156	-150.6	-248.4
			C:125002 ROSETON	345	126281 FISHKILL	345	1					71	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				-0.02640	0.53003	1252.6 3658.2
11235	4741.1	14734.1	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1069.7	3269.0	0.46389	0.43482	824.4	2885.9
			C:BUS:WOODA_345									1727	
			Open 126305 WOOD A	345	130758 WOODA345	345	1				-0.14755	-0.00303	134.1 119.7
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				0.28559	0.10022	928.0 1403.2
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.12013	0.00000	0.0 0.0



MillwoodSouthClosed

11236	4741.1	14734.1	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1069.7	3269.0	0.46389	0.43482	824.4	2885.9
			C:SER:F39&Y87				1692						
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			0.13804	0.10022	928.0	1403.2
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.14755	-0.10325	-793.9	-1283.5
			Open 126305 WOOD A	345	130758 WOODA345	345	1	NA					
			Open 130758 WOODA345	345	130865 WOODS115	115	1			0.02742	0.00000	0.0	0.0
11237	4756.9	14749.9	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1073.0	3269.0	0.46166	0.43482	824.4	2892.8
			C:126281 FISHKILL	345	126305 WOOD A	345	1	174					
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			0.26782	0.10022	928.0	1404.8
11238	4774.5	14767.5	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1051.4	3269.0	0.46447	0.43482	824.4	2900.4
			C:BUS:PLVILLW_345				1729						
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.27254	-0.10325	-793.9	-1286.9
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.25019	0.00606	43.1	72.1
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.11690	0.00000	1.8	1.8
11239	4781.4	14774.4	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1048.1	3269.0	0.46450	0.43482	824.4	2903.4
			C:SER:W90&W74				1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.27259	-0.09719	-749.1	-1213.8
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			-0.01078	-0.00175	309.1	300.7
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.52276	0.00606	43.1	72.1
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.15560	0.00000	1.8	1.8
11240	4804.6	14797.6	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1043.2	3269.0	0.46327	0.43482	824.4	2913.5
			C:126293 PL VILLW	345	126305 WOOD A	345	1	181					
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.27557	-0.10325	-793.9	-1290.0
11241	4824.5	14817.6	*L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1044.7	-3418.0	-0.49193	-0.42447	-775.8	-2823.7
			C:SER:W90&W74				1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			0.65333	-0.09719	-749.1	-1218.0
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			0.77303	-0.00175	309.1	300.6
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			-0.42909	0.00606	43.1	72.4
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.05784	0.00000	1.8	1.8
11243	4887.1	14880.1	*L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1020.0	3269.0	0.46019	0.43482	824.4	2949.4
			C:126266 DUNWODIE	345	126293 PL VILLW	345	1	154					
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.26109	-0.09719	-749.1	-1224.0
11244	4983.2	14976.2	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-824.2	1811.0	0.52882			
			Base Case										

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, JUL 15 2011 23:47  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24296  
 First violation - 804.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24296 violations

Interface-1 Interface 16 I-TO-J Init.Flow= 3530.24 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	
			C: Contingency description	___Ncon	Flow	Rating	LODF	Init Final	
1	804.5	4334.7	L: 125002 ROSETON Base Case	345	125190 ROSE GN1	24.0 1	-414.4	-614.0 -0.24808	
2	850.4	4380.7	L: 125002 ROSETON Base Case	345	125192 ROSE GN2	24.0 2	-416.2	-614.0 -0.23263	
3	950.9	4481.1	L: 126266 DUNWODIE Base Case	345	126600 REAC71	345 SR	541.3	783.0 0.25424	
4	950.9	4481.1	L: 126600 REAC71 Base Case	345	126641 MOTT HAVEN	345 3	541.3	783.0 0.25424	
5	972.4	4502.6	L: 126266 DUNWODIE Base Case	345	126601 REAC72	345 SR	537.5	783.0 0.25244	
6	972.4	4502.6	L: 126601 REAC72 Base Case	345	126641 MOTT HAVEN	345 4	537.5	783.0 0.25244	
7	1009.3	4539.5	L: 120801 STARS-00901 C:126266 DUNWODIE Open 126266 DUNWODIE	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
8	1009.3	4539.5	L: 120801 STARS-00901 C:137904 SPIER Open 137904 SPIER	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
9	1009.3	4539.5	L: 120801 STARS-00901 C:137450 ALPS345 Open 137450 ALPS345	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
10	1009.3	4539.5	L: 120801 STARS-00901 C:125013 MERRITT Open 125013 MERRITT	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
11	1009.3	4539.5	L: 120801 STARS-00901 C:130777 BRAIN115 Open 130777 BRAIN115	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
12	1009.3	4539.5	L: 120801 STARS-00901 C:130857 STOLE115 Open 130857 STOLE115	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
13	1009.3	4539.5	L: 120801 STARS-00901 C:137526 PINETAPW Open 137526 PINETAPW	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
14	1009.3	4539.5	L: 120801 STARS-00901 C:147827 MARCY765 Open 147827 MARCY765	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
15	1009.3	4539.5	L: 120801 STARS-00901 C:137525 PINETAPE Open 137525 PINETAPE	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0
16	1009.3	4539.5	L: 120801 STARS-00901 C:137255 WALESVL Open 137255 WALESVL	13.8	126292 PL VILLE	345 01	44.8	300.0 0.25286	0.25286 44.8 300.0

1744	1009.3	4539.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286									
			Base Case																	
1872	1057.9	4588.2	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-19.6	-256.0	-0.22345									
			Base Case																	
1873	1058.0	4588.2	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	19.6	256.0	0.22345									
			Base Case																	
1874	1187.8	4718.0	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	-26.1	251.0	0.23333									
			Base Case																	
1875	1192.0	4722.2	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	26.1	-252.0	-0.23333									
			Base Case																	
1876	1192.3	4722.5	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-105.6	-372.0	-0.22345	-0.22345	-19.6	-286.0						
			C:GEN:NYPA_AS																	
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW														
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW														
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW														
1877	1192.3	4722.6	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	105.6	372.0	0.22345	0.22345	19.6	286.0						
			C:GEN:NYPA_AS																	
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW														
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW														
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW														
1878	1199.2	4729.4	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-62.2	-342.0	-0.23333	-0.23333	26.1	-253.7						
			C:GEN:NYPA_AS																	
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW														
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW														
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW														
1879	1199.3	4729.5	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	62.2	342.0	0.23333	0.23333	-26.1	253.7						
			C:GEN:NYPA_AS																	
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW														
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW														
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW														
1880	1213.0	4743.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:SEAB&OMS																	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW														
1881	1213.0	4743.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:SEABROOK																	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW														
1882	1213.1	4743.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:MLS3&OMS																	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW														
1883	1213.1	4743.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:MILLST 3																	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW														
1884	1213.4	4743.6	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:9 MI PT2																	
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW														
1885	1213.4	4743.7	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:SALEM																	
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW														
1886	1213.5	4743.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7						
			C:GEN:IND PT 3-New																	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1				0.00000	0.02075	506.2	531.3					
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2				-0.00025	-0.04128	-1009.3	-1059.4					
1887	1213.6	4743.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:PEACHBTM																	
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0	MW														
1888	1213.6	4743.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7						
			C:GEN:IND PT 3																	
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW														
1889	1213.6	4743.8*L	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7						
			C:GEN:IND PT 2-New																	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1				0.00000	-0.02033	-493.4	-518.0					
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2				-0.00025	-0.04066	-986.7	-1036.1					
3138	1215.7	4745.9	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.6	300.0	0.12372									

Case ID	Value 1	Value 2	Description	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
Base Case													
3747	1257.3	4787.5	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	550.9	861.0	0.24666			
Base Case													
3748	1257.3	4787.5	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	550.9	861.0	0.24666			
Base Case													
3749	1266.4	4796.6	L: 126304 W 49 ST	345	126517 REACM51	345	1	-548.6	-861.0	-0.24666			
Base Case													
3750	1266.4	4796.6	L: 126304 W 49 ST	345	126518 REACM52	345	2	-548.6	-861.0	-0.24666			
Base Case													
3751	1418.8	4949.0	L: Interface 16 I-TO-J					3530.2	4949.0	1.00000			
Base Case													
3752	1451.3	4981.5	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-46.2	-372.0	-0.22450	-0.22345	-19.6	-343.9
			C:BUS:GOWANUS_S_345									1734	
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY	0.00470	-0.07842	245.5	131.7		
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1	-0.14295	0.00000	228.7	228.7		
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1	-0.00000	0.00000	49.9	49.9		
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1	-0.00000	0.00000	44.2	44.2		
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1	0.00947	-0.07145	522.9	419.2		
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	-0.00698	0.00000	0.6	0.6		
3753	1451.3	4981.6	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	46.2	372.0	0.22450	0.22345	19.6	343.9
			C:BUS:GOWANUS_S_345									1734	
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY	-0.00470	-0.07842	245.5	131.7		
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1	0.14295	0.00000	228.7	228.7		
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1	-0.00000	0.00000	49.9	49.9		
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1	-0.00000	0.00000	44.2	44.2		
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1	-0.00947	-0.07145	522.9	419.2		
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	0.00698	0.00000	0.6	0.6		
3754	1452.8	4983.0	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-45.7	-372.0	-0.22459	-0.22345	-19.6	-344.2
			C:BUS:GOWANUS_N_345									1733	
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	0.00943	-0.00696	45.9	35.8		
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY	0.01414	-0.07907	245.5	130.6		
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1	-0.13299	-0.00000	230.9	230.9		
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1	0.00943	-0.00000	49.9	49.9		
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1	0.00943	-0.00000	49.9	49.9		
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1	0.00246	0.01626	-99.1	-75.5		
3755	1452.8	4983.1	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	45.7	372.0	0.22459	0.22345	19.6	344.2
			C:BUS:GOWANUS_N_345									1733	
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	-0.00943	-0.00696	45.9	35.8		
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY	-0.01414	-0.07907	245.5	130.6		
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1	0.13299	-0.00000	230.9	230.9		
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1	-0.00943	-0.00000	49.9	49.9		
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1	-0.00943	-0.00000	49.9	49.9		
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1	-0.00246	0.01626	-99.1	-75.5		
3756	1454.4	4984.7	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-1.1	-342.0	-0.23440	-0.23333	26.1	-313.2
			C:BUS:GOWANUS_S_345									1734	
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY	0.00481	-0.07842	245.5	131.4		
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1	-0.14628	0.00000	228.7	228.7		
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1	0.00000	0.00000	49.9	49.9		
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1	0.00000	0.00000	44.2	44.2		
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1	0.00970	-0.07145	522.9	419.0		
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	-0.00718	0.00000	0.6	0.6		
3757	1454.5	4984.8	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	1.1	342.0	0.23440	0.23333	-26.1	313.2
			C:BUS:GOWANUS_S_345									1734	
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY	-0.00481	-0.07842	245.5	131.4		
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1	0.14628	0.00000	228.7	228.7		
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1	0.00000	0.00000	49.9	49.9		
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1	0.00000	0.00000	44.2	44.2		
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1	-0.00970	-0.07145	522.9	419.0		
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	0.00718	0.00000	0.6	0.6		
3758	1455.9	4986.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-0.6	-342.0	-0.23450	-0.23333	26.1	-313.6
			C:BUS:GOWANUS_N_345									1733	
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1	0.00965	-0.00696	45.9	35.8		
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY	0.01447	-0.07907	245.5	130.4		

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			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			-0.13609	-0.00000	230.9	230.9
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			0.00965	-0.00000	49.9	49.9
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			0.00965	-0.00000	49.9	49.9
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N		345 126286 GOWANUSN	345	1			0.00248	0.01626	-99.1	-75.4
3759	1456.0	4986.3	L: 126480 RAINNEY8E	138	126506 VERNON-E	138	1	0.6	342.0	0.23450	0.23333	-26.1	313.6
			C:BUS:GOWANUS_N_345				1733						
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			-0.00965	-0.00696	45.9	35.8
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY			-0.01447	-0.07907	245.5	130.4
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			0.13609	-0.00000	230.9	230.9
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			-0.00965	-0.00000	49.9	49.9
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			-0.00965	-0.00000	49.9	49.9
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N		345 126286 GOWANUSN	345	1			-0.00248	0.01626	-99.1	-75.4
3760	1461.4	4991.6	L: 126295 RAINNEY	345	126562 8W DUM	138	8	-70.5	256.0	0.22345			
			Base Case										
3761	1489.2	5019.5	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1	-39.2	-372.0	-0.22345	-0.22345	-19.6	-352.4
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			-0.04018	0.00000	488.4	488.4
3762	1489.3	5019.5	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1	39.2	372.0	0.22345	0.22345	19.6	352.4
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			0.04018	0.00000	488.4	488.4
3763	1489.9	5020.1	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1	-39.1	-372.0	-0.22345	-0.22345	-19.6	-352.5
			C:BUS:TREMONT_345				1741						
			Open 126466 SECT 11	138	126470 38X01 T	138	1			-0.04018	-0.00002	121.2	121.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1			-0.04018	0.00002	121.2	121.2
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1			-0.04018	-0.00002	123.9	123.9
			Open 126467 SECT 12	138	126473 38X04 T	138	1			-0.04018	0.00002	118.6	118.6
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			0.00387	0.00000	3.4	3.4
3764	1489.9	5020.2	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1	39.1	372.0	0.22345	0.22345	19.6	352.5
			C:BUS:TREMONT_345				1741						
			Open 126466 SECT 11	138	126470 38X01 T	138	1			0.04018	-0.00002	121.2	121.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1			0.04018	0.00002	121.2	121.2
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1			0.04018	-0.00002	123.9	123.9
			Open 126467 SECT 12	138	126473 38X04 T	138	1			0.04018	0.00002	118.6	118.6
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			-0.00387	0.00000	3.4	3.4
3765	1491.3	5021.5	L: 126480 RAINNEY8E	138	126561 8E DUM	138	1	6.0	-342.0	-0.23333	-0.23333	26.1	-321.8
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			-0.04130	0.00000	488.4	488.4
3766	1491.4	5021.6	L: 126480 RAINNEY8E	138	126506 VERNON-E	138	1	-6.0	342.0	0.23333	0.23333	-26.1	321.8
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			0.04130	0.00000	488.4	488.4
3767	1491.9	5022.2	L: 126480 RAINNEY8E	138	126561 8E DUM	138	1	6.1	-342.0	-0.23333	-0.23333	26.1	-322.0
			C:BUS:TREMONT_345				1741						
			Open 126466 SECT 11	138	126470 38X01 T	138	1			-0.04130	-0.00002	121.2	121.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1			-0.04130	0.00002	121.2	121.2
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1			-0.04130	-0.00002	123.9	123.9
			Open 126467 SECT 12	138	126473 38X04 T	138	1			-0.04130	0.00002	118.6	118.6
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			0.00399	0.00000	3.4	3.4
3768	1492.0	5022.3	L: 126480 RAINNEY8E	138	126506 VERNON-E	138	1	-6.1	342.0	0.23333	0.23333	-26.1	322.0
			C:BUS:TREMONT_345				1741						
			Open 126466 SECT 11	138	126470 38X01 T	138	1			0.04130	-0.00002	121.2	121.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1			0.04130	0.00002	121.2	121.2

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			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.04130	-0.00002	123.9	123.9		
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.04130	0.00002	118.6	118.6		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00399	0.00000	3.4	3.4		
3769	1507.2	5037.5	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1		-35.2	-372.0	-0.22345	-0.22345	-19.6	-356.4
			C:SPRN-ACDMY										1889	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.03894	0.00000	401.3	401.3		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.04283	0.00000	0.7	0.7		
3770	1507.3	5037.5	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1		35.2	372.0	0.22345	0.22345	19.6	356.4
			C:SPRN-ACDMY										1889	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.03894	0.00000	401.3	401.3		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		0.00000	0.00000	-200.3	-200.3		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.04283	0.00000	0.7	0.7		
3771	1509.0	5039.2	L: 126480 RAINNEY8E	138	126561 8E DUM	138	1		10.1	-342.0	-0.23333	-0.23333	26.1	-326.0
			C:SPRN-ACDMY										1889	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.04002	0.00000	401.3	401.3		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.04402	0.00000	0.7	0.7		
3772	1509.1	5039.3	L: 126480 RAINNEY8E	138	126506 VERNON-E	138	1		-10.1	342.0	0.23333	0.23333	-26.1	326.0
			C:SPRN-ACDMY										1889	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.04002	0.00000	401.3	401.3		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.04402	0.00000	0.7	0.7		
3773	1541.6	5071.8	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1		-27.5	-372.0	-0.22345	-0.22345	-19.6	-364.1
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1		-0.03390	-0.00000	233.9	233.9		
3774	1541.6	5071.9	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1		27.5	372.0	0.22345	0.22345	19.6	364.1
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1		0.03390	-0.00000	233.9	233.9		
3775	1542.8	5073.0	L: 126480 RAINNEY8E	138	126561 8E DUM	138	1		18.0	-342.0	-0.23333	-0.23333	26.1	-333.9
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1		-0.03484	-0.00000	233.9	233.9		
3776	1542.9	5073.1	L: 126480 RAINNEY8E	138	126506 VERNON-E	138	1		-18.0	342.0	0.23333	0.23333	-26.1	333.9
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1		0.03484	-0.00000	233.9	233.9		
3777	1551.0	5081.3	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1		-25.2	-372.0	-0.22360	-0.22345	-19.6	-366.2
			C:SER:W90&W74					1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		0.00099	-0.15285	-749.1	-986.1		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1		-0.01562	-0.00016	309.1	308.9		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		-0.00064	-0.00158	43.1	40.7		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1		0.00303	0.00000	1.8	1.8		
3778	1551.1	5081.3	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1		25.2	372.0	0.22360	0.22345	19.6	366.2
			C:SER:W90&W74					1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		-0.00099	-0.15285	-749.1	-986.1		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1		0.01562	-0.00016	309.1	308.9		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		0.00064	-0.00158	43.1	40.7		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1		-0.00303	0.00000	1.8	1.8		
3779	1551.9	5082.1	L: 126481 RAINNEY8W	138	126562 8W DUM	138	1		-24.7	-372.0	-0.22377	-0.22345	-19.6	-366.4
			C:SER:W89&W73					1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		0.00101	-0.31584	-824.2	-1314.4		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1		-0.01297	-0.00016	331.8	331.6		
3780	1551.9	5082.2	L: 126481 RAINNEY8W	138	126507 VERNON-W	138	1		24.7	372.0	0.22377	0.22345	19.6	366.4
			C:SER:W89&W73					1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		-0.00101	-0.31584	-824.2	-1314.4		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1		0.01297	-0.00016	331.8	331.6		
3781	1552.1	5082.3	L: 126480 RAINNEY8E	138	126561 8E DUM	138	1		20.4	-342.0	-0.23348	-0.23333	26.1	-336.0
			C:SER:W90&W74					1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		0.00101	-0.15285	-749.1	-986.3		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1		-0.01605	-0.00016	309.1	308.9		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		-0.00066	-0.00158	43.1	40.7		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1		0.00312	0.00000	1.8	1.8		

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3782	1552.1	5082.3*L:	126481 RAINNEY8W	138	126562 8W DUM	138	1	-24.3	-372.0	-0.22404	-0.22345	-19.6	-366.4
			C:SIN:130				1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	-0.00308	0.08645	845.3	979.5		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	-0.00308	0.08645	845.3	979.5		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	0.00147	-0.04128	40.6	-23.5		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3784	1552.1	5082.4*L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1	24.3	372.0	0.22404	0.22345	19.6	366.4
			C:SIN:120				1777						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	0.00308	0.08645	845.3	979.5		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	0.00308	0.08645	845.3	979.5		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	-0.00147	-0.04128	40.6	-23.5		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3786	1552.2	5082.4 L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-20.4	342.0	0.23348	0.23333	-26.1	336.0
			C:SER:W90&W74				1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1	-0.00101	-0.15285	-749.1	-986.3		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1	0.01605	-0.00016	309.1	308.9		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1	0.00066	-0.00158	43.1	40.7		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1	-0.00312	0.00000	1.8	1.8		
3787	1552.9	5083.2 L:	126480 RAINNEY8E	138	126561 8E DUM	138	1	20.8	-342.0	-0.23365	-0.23333	26.1	-336.2
			C:SER:W89&W73				1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1	0.00104	-0.31584	-824.2	-1314.7		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1	-0.01333	-0.00016	331.8	331.6		
3788	1553.0	5083.3 L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-20.9	342.0	0.23365	0.23333	-26.1	336.2
			C:SER:W89&W73				1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1	-0.00104	-0.31584	-824.2	-1314.7		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1	0.01333	-0.00016	331.8	331.6		
3789	1553.1	5083.3*L:	126480 RAINNEY8E	138	126561 8E DUM	138	1	21.3	-342.0	-0.23394	-0.23333	26.1	-336.3
			C:SIN:120				1777						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	-0.00317	0.08645	845.3	979.6		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	-0.00317	0.08645	845.3	979.6		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	0.00151	-0.04128	40.6	-23.5		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3791	1553.2	5083.4*L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-21.4	342.0	0.23394	0.23333	-26.1	336.3
			C:SIN:130				1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1	0.00317	0.08645	845.3	979.6		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2	0.00317	0.08645	845.3	979.6		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1	-0.00151	-0.04128	40.6	-23.5		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
11173	1596.1	5126.3 L:	126295 RAINNEY	345	126562 8W DUM	138	8	15.4	372.0	0.22345	0.22345	-70.5	286.1
			C:GEN:NYPA_AS				1662						
			Remove unit 1 from bus	147788 POLETGT2	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147789 POLETSTG	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147790 POLETGT1	18.0	155.3 MW	dispatch						
11178	1625.0	5155.2 L:	126295 RAINNEY	345	126561 8E DUM	138	8	-129.1	252.0	0.23456			
			Base Case										
11179	1632.5	5162.8 L:	126295 RAINNEY	345	126561 8E DUM	138	8	-40.9	342.0	0.23456	0.23456	-129.1	253.8
			C:GEN:NYPA_AS				1662						
			Remove unit 1 from bus	147788 POLETGT2	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147789 POLETSTG	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147790 POLETGT1	18.0	155.3 MW	dispatch						
11196	1654.0	5184.3 L:	Interface	17	I-TO-J+K			4750.0	6404.0	1.00000			
			Base Case										
11213	1724.3	5254.6 L:	126266 DUNWODIE	345	126600 REAC71	345	SR	660.8	1196.0	0.31038	0.25424	541.3	979.7

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			C:126266 DUNWODIE	345	126601 REAC72	345 SR	159							
			Open 126266 DUNWODIE	345	126601 REAC72	345 SR		0.22239	0.25244	537.5	972.8			
11214	1724.4	5254.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		660.8	1196.0	0.31038		0.25424	541.3	979.7
			C:126266 DUNWODIE	345	126601 REAC72	345 SR	159							
			Open 126266 DUNWODIE	345	126601 REAC72	345 SR		0.22239	0.25244	537.5	972.8			
11215	1724.4	5254.6	L: 126266 DUNWODIE	345	126600 REAC71	345 SR		660.8	1196.0	0.31038		0.25424	541.3	979.7
			C:126601 REAC72	345	126641 MOTT HAVEN	345 4	1474							
			Open 126601 REAC72	345	126641 MOTT HAVEN	345 4		0.22239	0.25244	537.5	972.8			
11216	1724.4	5254.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		660.8	1196.0	0.31038		0.25424	541.3	979.7
			C:126601 REAC72	345	126641 MOTT HAVEN	345 4	1474							
			Open 126601 REAC72	345	126641 MOTT HAVEN	345 4		0.22239	0.25244	537.5	972.8			
11217	1745.4	5275.7	L: 126266 DUNWODIE	345	126601 REAC72	345 SR		657.2	1196.0	0.30867		0.25244	537.5	978.2
			C:126266 DUNWODIE	345	126600 REAC71	345 SR	158							
			Open 126266 DUNWODIE	345	126600 REAC71	345 SR		0.22116	0.25424	541.3	985.0			
11218	1745.4	5275.7	L: 126266 DUNWODIE	345	126601 REAC72	345 SR		657.2	1196.0	0.30867		0.25244	537.5	978.2
			C:126600 REAC71	345	126641 MOTT HAVEN	345 3	1473							
			Open 126600 REAC71	345	126641 MOTT HAVEN	345 3		0.22116	0.25424	541.3	985.0			
11219	1745.4	5275.7	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4		657.2	1196.0	0.30867		0.25244	537.5	978.2
			C:126266 DUNWODIE	345	126600 REAC71	345 SR	158							
			Open 126266 DUNWODIE	345	126600 REAC71	345 SR		0.22116	0.25424	541.3	985.0			
11220	1745.4	5275.7	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4		657.2	1196.0	0.30867		0.25244	537.5	978.2
			C:126600 REAC71	345	126641 MOTT HAVEN	345 3	1473							
			Open 126600 REAC71	345	126641 MOTT HAVEN	345 3		0.22116	0.25424	541.3	985.0			
11225	1843.2	5373.4	L: 126266 DUNWODIE	345	126600 REAC71	345 SR		643.2	1196.0	0.29990		0.25424	541.3	1009.9
			C:126298 SPRBROOK	345	126517 REACM51	345 SR	197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR		0.18511	0.24666	550.9	1005.5			
11226	1843.2	5373.4	L: 126266 DUNWODIE	345	126600 REAC71	345 SR		643.2	1196.0	0.29990		0.25424	541.3	1009.9
			C:126298 SPRBROOK	345	126518 REACM52	345 SR	198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR		0.18511	0.24666	550.9	1005.5			
11227	1843.2	5373.4	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		643.2	1196.0	0.29990		0.25424	541.3	1009.9
			C:126298 SPRBROOK	345	126518 REACM52	345 SR	198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR		0.18511	0.24666	550.9	1005.5			
11228	1843.2	5373.4	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		643.2	1196.0	0.29990		0.25424	541.3	1009.9
			C:126298 SPRBROOK	345	126517 REACM51	345 SR	197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR		0.18511	0.24666	550.9	1005.5			
11229	1844.6	5374.8	L: 126266 DUNWODIE	345	126600 REAC71	345 SR		642.8	1196.0	0.29990		0.25424	541.3	1010.2
			C:126304 W 49 ST	345	126517 REACM51	345 1	1468							
			Open 126304 W 49 ST	345	126517 REACM51	345 1		-0.18511	-0.24666	-548.6	-1003.6			
11230	1844.6	5374.8	L: 126266 DUNWODIE	345	126600 REAC71	345 SR		642.8	1196.0	0.29990		0.25424	541.3	1010.2
			C:126304 W 49 ST	345	126518 REACM52	345 2	1469							
			Open 126304 W 49 ST	345	126518 REACM52	345 2		-0.18511	-0.24666	-548.6	-1003.6			
11231	1844.6	5374.8	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		642.8	1196.0	0.29990		0.25424	541.3	1010.2
			C:126304 W 49 ST	345	126518 REACM52	345 2	1469							
			Open 126304 W 49 ST	345	126518 REACM52	345 2		-0.18511	-0.24666	-548.6	-1003.6			
11232	1844.6	5374.8	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3		642.8	1196.0	0.29990		0.25424	541.3	1010.2
			C:126304 W 49 ST	345	126517 REACM51	345 1	1468							
			Open 126304 W 49 ST	345	126517 REACM51	345 1		-0.18511	-0.24666	-548.6	-1003.6			
11233	1852.8	5383.1	L: 126295 RAINEY	345	126562 8W DUM	138 8		-44.0	372.0	0.22450		0.22345	-70.5	343.5
			C:BUS:GOWANUS_S_345				1734							
			Open 126287 GOWANUSS	345	126591 GOWANUS	42SR	345 BY	-0.00470	-0.07842	245.5	100.2			
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138 1		0.14295	0.00000	228.7	228.7			
			Open 126287 GOWANUSS	345	126622 GATE 3	138 1		-0.00000	0.00000	49.9	49.9			
			Open 126287 GOWANUSS	345	126623 GATE 4	138 1		-0.00000	0.00000	44.2	44.2			
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345 1		-0.00947	-0.07145	522.9	390.5			
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345 1		0.00698	0.00000	0.6	0.6			
11234	1854.2	5384.4	L: 126295 RAINEY	345	126562 8W DUM	138 8		-44.4	372.0	0.22459		0.22345	-70.5	343.8
			C:BUS:GOWANUS_N_345				1733							
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345 1		-0.00943	-0.00696	45.9	33.0			
			Open 126286 GOWANUSN	345	126590 GOWANUS	41SR	345 BY	-0.01414	-0.07907	245.5	98.9			
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138 1		0.13299	-0.00000	230.9	230.9			
			Open 126286 GOWANUSN	345	126620 GATE 1	138 1		-0.00943	-0.00000	49.9	49.9			
			Open 126286 GOWANUSN	345	126621 GATE 2	138 1		-0.00943	-0.00000	49.9	49.9			
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345 03		NA						
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345 1		-0.00246	0.01626	-99.1	-68.9			
11235	1871.2	5401.5	L: 126266 DUNWODIE	345	126601 REAC72	345 SR		638.8	1196.0	0.29778		0.25244	537.5	1009.9



			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197									
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR				0.18380	0.24666	550.9	1012.4			
11236	1871.2	5401.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		638.8	1196.0	0.29778	0.25244	537.5	1009.9			
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198									
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR				0.18380	0.24666	550.9	1012.4			
11237	1871.2	5401.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		638.8	1196.0	0.29778	0.25244	537.5	1009.9			
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197									
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR				0.18380	0.24666	550.9	1012.4			
11238	1871.2	5401.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		638.8	1196.0	0.29778	0.25244	537.5	1009.9			
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198									
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR				0.18380	0.24666	550.9	1012.4			
11239	1872.6	5402.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		638.4	1196.0	0.29778	0.25244	537.5	1010.3			
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469									
			Open 126304 W 49 ST	345	126518 REACM52	345	2				-0.18380	-0.24666	-548.6	-1010.5			
11240	1872.6	5402.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		638.4	1196.0	0.29778	0.25244	537.5	1010.3			
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468									
			Open 126304 W 49 ST	345	126517 REACM51	345	1				-0.18380	-0.24666	-548.6	-1010.5			
11241	1872.6	5402.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		638.4	1196.0	0.29778	0.25244	537.5	1010.3			
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469									
			Open 126304 W 49 ST	345	126518 REACM52	345	2				-0.18380	-0.24666	-548.6	-1010.5			
11242	1872.6	5402.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		638.4	1196.0	0.29778	0.25244	537.5	1010.3			
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468									
			Open 126304 W 49 ST	345	126517 REACM51	345	1				-0.18380	-0.24666	-548.6	-1010.5			
11243	1884.1	5414.3	L: 126295 RAINEY	345	126561 8E DUM	138	8		-101.9	342.0	0.23563	0.23456	-129.1	312.8			
			C:BUS:GOWANUS_S_345					1734									
			Open 126287 GOWANUSS	345	126591 GOWANUS	42SR	345	BY			-0.00481	-0.07842	245.5	97.7			
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1				0.14628	0.00000	228.7	228.7			
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1				0.00000	0.00000	49.9	49.9			
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1				0.00000	0.00000	44.2	44.2			
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1				-0.00970	-0.07145	522.9	388.3			
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				0.00718	0.00000	0.6	0.6			
11244	1885.4	5415.6	L: 126295 RAINEY	345	126561 8E DUM	138	8		-102.4	342.0	0.23573	0.23456	-129.1	313.1			
			C:BUS:GOWANUS_N_345					1733									
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				-0.00965	-0.00696	45.9	32.8			
			Open 126286 GOWANUSN	345	126590 GOWANUS	41SR	345	BY			-0.01447	-0.07907	245.5	96.4			
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1				0.13609	-0.00000	230.9	230.9			
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1				-0.00965	-0.00000	49.9	49.9			
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1				-0.00965	-0.00000	49.9	49.9			
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03		NA								
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				-0.00248	0.01626	-99.1	-68.4			
11245	1892.7	5422.9	L: 126295 RAINEY	345	126562 8W DUM	138	8		-50.9	372.0	0.22345	0.22345	-70.5	352.4			
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466									
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.04018	0.00000	488.4	488.4			
11246	1893.3	5423.6	L: 126295 RAINEY	345	126562 8W DUM	138	8		-51.1	372.0	0.22345	0.22345	-70.5	352.5			
			C:BUS:TREMONT_345					1741									
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.04018	-0.00002	121.2	121.2			
			Open 126466 SECT 11	138	126471 38X02 T	138	1				0.04018	0.00002	121.2	121.2			
			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA								
			Open 126467 SECT 12	138	126472 38X03 T	138	1				0.04018	-0.00002	123.9	123.9			
			Open 126467 SECT 12	138	126473 38X04 T	138	1				0.04018	0.00002	118.6	118.6			
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA								
			Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA								
			Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA								
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.00387	0.00000	3.4	3.4			
11247	1910.7	5440.9	L: 126295 RAINEY	345	126562 8W DUM	138	8		-54.9	372.0	0.22345	0.22345	-70.5	356.4			
			C:SPRN-ACDMY					1889									
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				0.03894	0.00000	401.3	401.3			
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				0.00000	0.00000	-200.3	-200.3			
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				-0.04283	0.00000	0.7	0.7			
11248	1922.7	5452.9	L: 126295 RAINEY	345	126561 8E DUM	138	8		-109.0	342.0	0.23456	0.23456	-129.1	321.8			
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466									
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.04130	0.00000	488.4	488.4			
11249	1923.3	5453.6	L: 126295 RAINEY	345	126561 8E DUM	138	8		-109.1	342.0	0.23456	0.23456	-129.1	322.0			
			C:BUS:TREMONT_345					1741									
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.04130	-0.00002	121.2	121.2			

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				Open 126466 SECT 11	138	126471	38X02 T	138	1			0.04130	0.00002	121.2	121.2		
				Open 126462 PARK TR1	138	126466	SECT 11	138	1	NA							
				Open 126467 SECT 12	138	126472	38X03 T	138	1			0.04130	-0.00002	123.9	123.9		
				Open 126467 SECT 12	138	126473	38X04 T	138	1			0.04130	0.00002	118.6	118.6		
				Open 126463 PARK TR2	138	126467	SECT 12	138	1	NA							
				Open 126301 TREMONT	345	126462	PARK TR1	138	1	NA							
				Open 126301 TREMONT	345	126463	PARK TR2	138	1	NA							
				Open 126298 SPRBROOK	345	126301	TREMONT	345	1			-0.00399	0.00000	3.4	3.4		
11250	1940.3	5470.5	L:	126295 RAINNEY	345	126561	8E DUM	138	8			-113.1	342.0	0.23456	0.23456	-129.1	326.0
			C:	SPRN-ACDMY											1889		
				Open 126298 SPRBROOK	345	126847	ACADEMY	345	1			0.04002	0.00000	401.3	401.3		
				Open 126780 SCK-PARW	138	126847	ACADEMY	345	1			-0.00000	0.00000	-200.3	-200.3		
				Open 126781 SCK-PARE	138	126847	ACADEMY	345	1			-0.04402	0.00000	0.7	0.7		
11251	1945.0	5475.2	L:	126295 RAINNEY	345	126562	8W DUM	138	8			-62.6	372.0	0.22345	0.22345	-70.5	364.1
			C:	126374 DUN SO1R	138	126385	E179 ST	138	1	1472							
				Open 126374 DUN SO1R	138	126385	E179 ST	138	1			0.03390	-0.00000	233.9	233.9		
11252	1954.2	5484.4	L:	126295 RAINNEY	345	126562	8W DUM	138	8			-65.0	372.0	0.22360	0.22345	-70.5	366.1
			C:	SER:W90&W74											1693		
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00099	-0.15285	-749.1	-1047.8		
				Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01562	-0.00016	309.1	308.8		
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00064	-0.00158	43.1	40.0		
				Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00303	0.00000	1.8	1.8		
11253	1954.5	5484.7	L:	126295 RAINNEY	345	126562	8W DUM	138	8			-65.9	372.0	0.22404	0.22345	-70.5	366.2
			C:	SIN:130											1778		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00308	0.08645	845.3	1014.3		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00308	0.08645	845.3	1014.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	-0.04128	40.6	-40.1		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch						
11254	1954.5	5484.7	*L:	126295 RAINNEY	345	126562	8W DUM	138	8			-65.9	372.0	0.22404	0.22345	-70.5	366.2
			C:	SIN:120											1777		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00308	0.08645	845.3	1014.3		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00308	0.08645	845.3	1014.3		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00147	-0.04128	40.6	-40.1		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch						
11298	1973.9	5504.2	L:	126295 RAINNEY	345	126561	8E DUM	138	8			-121.0	342.0	0.23456	0.23456	-129.1	333.9
			C:	126374 DUN SO1R	138	126385	E179 ST	138	1	1472							
				Open 126374 DUN SO1R	138	126385	E179 ST	138	1			0.03484	-0.00000	233.9	233.9		
13081	1982.9	5513.1	L:	126295 RAINNEY	345	126561	8E DUM	138	8			-123.4	342.0	0.23471	0.23456	-129.1	336.0
			C:	SER:W90&W74											1693		
				Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00101	-0.15285	-749.1	-1052.1		
				Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01605	-0.00016	309.1	308.8		
				Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00066	-0.00158	43.1	40.0		
				Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00312	0.00000	1.8	1.8		
13087	1983.1	5513.3	L:	126295 RAINNEY	345	126561	8E DUM	138	8			-124.4	342.0	0.23517	0.23456	-129.1	336.0
			C:	SIN:120											1777		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00317	0.08645	845.3	1016.8		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00317	0.08645	845.3	1016.8		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00151	-0.04128	40.6	-41.2		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
				Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch						
13088	1983.1	5513.3	*L:	126295 RAINNEY	345	126561	8E DUM	138	8			-124.4	342.0	0.23517	0.23456	-129.1	336.0
			C:	SIN:130											1778		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00317	0.08645	845.3	1016.8		
				Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00317	0.08645	845.3	1016.8		
				Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00151	-0.04128	40.6	-41.2		
				Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
				Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							



			C:BUS:SHORE_RD_345				1731							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		0.05297	-0.00000	310.8	310.8	
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		0.05297	-0.00000	309.7	309.7	
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.06498	0.00000	2.3	2.3	
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		0.06498	0.00000	-0.0	-0.0	
14994	2477.7	6008.0*L:	126266 DUNWODIE	345	126601	REAC72	345	SR	570.5	1196.0	0.25244	0.25244	537.5	1163.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.05297	-0.00000	622.7	622.7	
14995	2477.7	6008.0*L:	126601 REAC72	345	126641	MOTT HAVEN	345	4	570.5	1196.0	0.25244	0.25244	537.5	1163.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.05297	-0.00000	622.7	622.7	
15072	2544.9	6075.2 L:	Interface 14 DUNWOODIE-SO						5818.1	8363.0	1.00000			
			Base Case											
18599	2596.0	6126.2 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	663.2	1434.0	0.29693	0.24666	550.9	1191.2
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR		0.20383	0.24666	550.9	1191.2	
18600	2596.0	6126.2 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	663.2	1434.0	0.29693	0.24666	550.9	1191.2
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR		0.20383	0.24666	550.9	1191.2	
18617	2597.5	6127.7 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	662.7	1434.0	0.29693	0.24666	550.9	1191.6
			C:126304 W 49 ST	345	126517	REACM51	345	1	1468					
			Open 126304 W 49 ST	345	126517	REACM51	345	1		-0.20383	-0.24666	-548.6	-1189.3	
18618	2597.5	6127.7 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	662.7	1434.0	0.29693	0.24666	550.9	1191.6
			C:126304 W 49 ST	345	126518	REACM52	345	2	1469					
			Open 126304 W 49 ST	345	126518	REACM52	345	2		-0.20383	-0.24666	-548.6	-1189.3	
18719	2603.5	6133.7 L:	126304 W 49 ST	345	126517	REACM51	345	1	-660.9	-1434.0	-0.29693	-0.24666	-548.6	-1190.8
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR		-0.20383	0.24666	550.9	1193.1	
18720	2603.5	6133.7 L:	126304 W 49 ST	345	126518	REACM52	345	2	-660.9	-1434.0	-0.29693	-0.24666	-548.6	-1190.8
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR		-0.20383	0.24666	550.9	1193.1	
18775	2605.0	6135.3 L:	126304 W 49 ST	345	126517	REACM51	345	1	-660.5	-1434.0	-0.29693	-0.24666	-548.6	-1191.2
			C:126304 W 49 ST	345	126518	REACM52	345	2	1469					
			Open 126304 W 49 ST	345	126518	REACM52	345	2		0.20383	-0.24666	-548.6	-1191.2	
18776	2605.0	6135.3 L:	126304 W 49 ST	345	126518	REACM52	345	2	-660.5	-1434.0	-0.29693	-0.24666	-548.6	-1191.2
			C:126304 W 49 ST	345	126517	REACM51	345	1	1468					
			Open 126304 W 49 ST	345	126517	REACM51	345	1		0.20383	-0.24666	-548.6	-1191.2	
22265	2680.0	6210.2 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	158					
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR		0.18165	0.25424	541.3	1222.6	
22266	2680.0	6210.2 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	158					
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR		0.18165	0.25424	541.3	1222.6	
22267	2680.0	6210.2 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1473					
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3		0.18165	0.25424	541.3	1222.6	
22268	2680.0	6210.2 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1473					
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3		0.18165	0.25424	541.3	1222.6	
22277	2686.5	6216.7 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	159					
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.18136	0.25244	537.5	1215.7	
22278	2686.5	6216.7 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	159					
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.18136	0.25244	537.5	1215.7	
22279	2686.5	6216.7 L:	126298 SPRBROOK	345	126517	REACM51	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1474					
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.18136	0.25244	537.5	1215.7	
22280	2686.5	6216.7 L:	126298 SPRBROOK	345	126518	REACM52	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1474					
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.18136	0.25244	537.5	1215.7	
22281	2687.6	6217.8 L:	126304 W 49 ST	345	126517	REACM51	345	1	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	158					
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR		-0.18165	0.25424	541.3	1224.6	
22282	2687.6	6217.8 L:	126304 W 49 ST	345	126518	REACM52	345	2	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6

			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1473							
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18165	0.25424	541.3	1224.6	
22283	2687.6	6217.8	L: 126304 W 49 ST	345	126517	REACM51	345	1		-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6	
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1473							
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			-0.18165	0.25424	541.3	1224.6	
22284	2687.6	6217.8	L: 126304 W 49 ST	345	126518	REACM52	345	2		-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6	
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	158							
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			-0.18165	0.25424	541.3	1224.6	
22295	2694.1	6224.3	L: 126304 W 49 ST	345	126517	REACM51	345	1		-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	159							
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			-0.18136	0.25244	537.5	1217.6	
22296	2694.1	6224.3	L: 126304 W 49 ST	345	126518	REACM52	345	2		-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	159							
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			-0.18136	0.25244	537.5	1217.6	
22297	2694.1	6224.3	L: 126304 W 49 ST	345	126517	REACM51	345	1		-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1474							
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18136	0.25244	537.5	1217.6	
22298	2694.1	6224.3	L: 126304 W 49 ST	345	126518	REACM52	345	2		-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1474							
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			-0.18136	0.25244	537.5	1217.6	
22309	2705.1	6235.4	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3		-359.7	-1196.0	-0.30915	-0.26208	-254.6	-963.6	
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	198							
			Open 126298 SPRBROOK		345	126518	REACM52	345	SR			-0.19082	0.24666	550.9	1218.1	
22310	2705.1	6235.4	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3		-359.7	-1196.0	-0.30915	-0.26208	-254.6	-963.6	
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	197							
			Open 126298 SPRBROOK		345	126517	REACM51	345	SR			-0.19082	0.24666	550.9	1218.1	
22311	2706.5	6236.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3		-359.3	-1196.0	-0.30915	-0.26208	-254.6	-963.9	
			C:126304 W 49 ST	345	126517	REACM51	345	1	1468							
			Open 126304 W 49 ST		345	126517	REACM51	345	1			0.19082	-0.24666	-548.6	-1216.2	
22312	2706.5	6236.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3		-359.3	-1196.0	-0.30915	-0.26208	-254.6	-963.9	
			C:126304 W 49 ST	345	126518	REACM52	345	2	1469							
			Open 126304 W 49 ST		345	126518	REACM52	345	2			0.19082	-0.24666	-548.6	-1216.2	
22403	2818.4	6348.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-420.8	-1120.0	-0.24808	-0.24808	-414.4	-1113.6	
			C:SIN:250						1787							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	MW dispatch							
22410	2823.2	6353.4	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114.8	
			C:SIN:120						1777							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00000	0.08645	845.3	1089.4	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.00000	0.08645	845.3	1089.4	
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00000	-0.04128	40.6	-75.9	
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus 147798 IP#3 GEN				22.0	1040.4	MW dispatch							
22411	2823.2	6353.4	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114.8	
			C:SIN:130						1778							
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00000	0.08645	845.3	1089.4	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.00000	0.08645	845.3	1089.4	
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00000	-0.04128	40.6	-75.9	
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA							
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA							
			Remove unit 1 from bus 147798 IP#3 GEN				22.0	1040.4	MW dispatch							
22416	2840.3	6370.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119.0	
			C:GEN:SEABROOK						1683							
			Remove unit 1 from bus 102869 SBRK G1				25.0	1318.0	MW dispatch							
22417	2840.3	6370.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119.0	
			C:GEN:SEAB&OMS						1685							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus 102869 SBRK G1				25.0	1318.0	MW dispatch							
22418	2840.4	6370.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.3	-1120.0	-0.24808	-0.24808	-414.4	-1119.1	
			C:GEN:MLS3&OMS						1684							
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3				24.0	1276.0	MW dispatch							

ItoJ

22419	2840.4	6370.7	L: 125002 ROSETON	345 125190 ROSE GN1	24.0 1	-415.3 -1120.0 -0.24808	-0.24808	-414.4	-1119.1
			C:GEN:MILLST 3		1682				
			Remove unit 3 from bus 103563 MILL#3		24.0 1276.0 MW	dispatch			
22420	2840.9	6371.1	L: 125002 ROSETON	345 125190 ROSE GN1	24.0 1	-415.2 -1120.0 -0.24808	-0.24808	-414.4	-1119.2
			C:GEN:9 MI PT2		1671				
			Remove unit 2 from bus 136700 9M PT 2G		25.0 1126.9 MW	dispatch			
22421	2840.9	6371.1	L: 125002 ROSETON	345 125190 ROSE GN1	24.0 1	-415.2 -1120.0 -0.24811	-0.24808	-414.4	-1119.2
			C:GEN:IND PT 3-New		1884				
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 1		0.00000	0.02075	506.2 565.1
			Open 147798 IP#3 GEN	22.0 147832 IP3 345	345 2		0.00072	-0.04128	-1009.3 -1126.6
22422	2840.9	6371.2	*L: 125002 ROSETON	345 125190 ROSE GN1	24.0 1	-415.2 -1120.0 -0.24808	-0.24808	-414.4	-1119.2
			C:GEN:SALEM		1677				
			Remove unit 1 from bus 36 SALEM-G1		22.0 1107.4 MW	dispatch			
24289	2978.4	6508.7	L: 126295 RAINEY	345 126641 MOTT HAVEN	345 4	-336.6 -1196.0 -0.28854	-0.24461	-238.5	-967.1
			C:126298 SPRBROOK	345 126518 REACM52	345 SR 198				
			Open 126298 SPRBROOK	345 126518 REACM52	345 SR		-0.17810	0.24666	550.9 1285.5
24290	2978.4	6508.7	L: 126295 RAINEY	345 126641 MOTT HAVEN	345 4	-336.6 -1196.0 -0.28854	-0.24461	-238.5	-967.1
			C:126298 SPRBROOK	345 126517 REACM51	345 SR 197				
			Open 126298 SPRBROOK	345 126517 REACM51	345 SR		-0.17810	0.24666	550.9 1285.5
24291	2979.8	6510.0	L: 126295 RAINEY	345 126641 MOTT HAVEN	345 4	-336.2 -1196.0 -0.28854	-0.24461	-238.5	-967.4
			C:126304 W 49 ST	345 126517 REACM51	345 1 1468				
			Open 126304 W 49 ST	345 126517 REACM51	345 1		0.17810	-0.24666	-548.6 -1283.6
24292	2979.8	6510.0	L: 126295 RAINEY	345 126641 MOTT HAVEN	345 4	-336.2 -1196.0 -0.28854	-0.24461	-238.5	-967.4
			C:126304 W 49 ST	345 126518 REACM52	345 2 1469				
			Open 126304 W 49 ST	345 126518 REACM52	345 2		0.17810	-0.24666	-548.6 -1283.6

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- MON, AUG 15 2011 9:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24309  
 First violation - 804.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24309 violations

Interface-1 Interface 14 DUNWOODIE-SO Init.Flow= 4750.98 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init Final
1	804.5	5555.5	L: 125002 ROSETON Base Case	345 125190 ROSE GN1	24.0 1	-414.4	-614.0	-0.24808
2	850.4	5601.4	L: 125002 ROSETON Base Case	345 125192 ROSE GN2	24.0 2	-416.2	-614.0	-0.23263
3	950.9	5701.8	L: 126266 DUNWODIE Base Case	345 126600 REAC71	345 SR	541.3	783.0	0.25424
4	950.9	5701.8	L: 126600 REAC71 Base Case	345 126641 MOTT HAVEN	345 3	541.3	783.0	0.25424
5	972.4	5723.4	L: 126266 DUNWODIE Base Case	345 126601 REAC72	345 SR	537.5	783.0	0.25244
6	972.4	5723.4	L: 126601 REAC72 Base Case	345 126641 MOTT HAVEN	345 4	537.5	783.0	0.25244
7	1009.3	5760.2	L: 120801 STARS-00901 C:130836 N.WAV115	13.8 126292 PL VILLE 115 131018 LOUNS115	345 01 115 1 412	44.8	300.0	0.25286 0.25286 44.8 300.0
8	1009.3	5760.2	L: 120801 STARS-00901 C:149011 S82-1115	13.8 126292 PL VILLE 115 149067 S80 4TR	345 01 115 1 1413	44.8	300.0	0.25286 0.25286 44.8 300.0
9	1009.3	5760.2	L: 120801 STARS-00901 C:126266 DUNWODIE	13.8 126292 PL VILLE 345 126343 W73 TAP	345 01 345 1 157	44.8	300.0	0.25286 0.25286 44.8 300.0
10	1009.3	5760.2	L: 120801 STARS-00901 C:125013 MERRITT	13.8 126292 PL VILLE 115 125027 FORGEBRK	345 01 115 1 72	44.8	300.0	0.25286 0.25286 44.8 300.0
11	1009.3	5760.2	L: 120801 STARS-00901 C:135451 PARADISE	13.8 126292 PL VILLE 115 135497 ZRMN-133	345 01 115 1 664	44.8	300.0	0.25286 0.25286 44.8 300.0
12	1009.3	5760.2	L: 120801 STARS-00901 C:130838 OAKDL115	13.8 126292 PL VILLE 115 130839 OAK2M115	345 01 115 1 414	44.8	300.0	0.25286 0.25286 44.8 300.0
13	1009.3	5760.2	L: 120801 STARS-00901 C:135452 LOCKPORT	13.8 126292 PL VILLE 115 135471 SWAN-104	345 01 115 1 668	44.8	300.0	0.25286 0.25286 44.8 300.0
14	1009.3	5760.2	L: 120801 STARS-00901 C:136232 PIN G-10	13.8 126292 PL VILLE 115 136244 TEALL	345 01 115 1 924	44.8	300.0	0.25286 0.25286 44.8 300.0
15	1009.3	5760.2	L: 120801 STARS-00901 C:146776 WNYA138	13.8 126292 PL VILLE 138 146867 SNAKE HILL	345 01 138 1 1307	44.8	300.0	0.25286 0.25286 44.8 300.0
16	1009.3	5760.2	L: 120801 STARS-00901 C:LAMBT8/LAMGEN	13.8 126292 PL VILLE 345 B\$1021 LAMBT8	345 01 1.00 T8 1758	44.8	300.0	0.25286 0.25286 44.8 300.0
			Open 160050 LAMB L4D	345 B\$1021 LAMBT8	1.00 T8	0.00000	0.00001	-477.8 -477.8
			Open 160064 LAMB T78	220 B\$1021 LAMBT8	1.00 T8	0.00000	0.00000	0.8 0.8

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202	1009.3	5760.2	Set bus 160705 LAMBING4 24.0 generation to 0.0 MW dispatch	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286			
			Base Case											
1873	1057.9	5808.9	L: 126481 RAINEY8W 138 126562 8W DUM 138 1						-19.6	-256.0	-0.22345			
			Base Case											
1874	1058.0	5808.9	L: 126481 RAINEY8W 138 126507 VERNON-W 138 1						19.6	256.0	0.22345			
			Base Case											
1875	1187.8	5938.8	L: 126480 RAINEY8E 138 126506 VERNON-E 138 1						-26.1	251.0	0.23333			
			Base Case											
1876	1192.0	5943.0	L: 126480 RAINEY8E 138 126561 8E DUM 138 1						26.1	-252.0	-0.23333			
			Base Case											
1877	1192.3	5943.3	L: 126481 RAINEY8W 138 126562 8W DUM 138 1						-105.6	-372.0	-0.22345	-0.22345	-19.6	-286.0
			C:GEN:NYPA_AS 1662											
			Remove unit 1 from bus 147788 POLETGT2 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147789 POLETSTG 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147790 POLETGT1 18.0 155.3 MW dispatch											
1878	1192.3	5943.3	L: 126481 RAINEY8W 138 126507 VERNON-W 138 1						105.6	372.0	0.22345	0.22345	19.6	286.0
			C:GEN:NYPA_AS 1662											
			Remove unit 1 from bus 147788 POLETGT2 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147789 POLETSTG 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147790 POLETGT1 18.0 155.3 MW dispatch											
1879	1199.2	5950.1	L: 126480 RAINEY8E 138 126561 8E DUM 138 1						-62.2	-342.0	-0.23333	-0.23333	26.1	-253.7
			C:GEN:NYPA_AS 1662											
			Remove unit 1 from bus 147788 POLETGT2 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147789 POLETSTG 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147790 POLETGT1 18.0 155.3 MW dispatch											
1880	1199.3	5950.2	L: 126480 RAINEY8E 138 126506 VERNON-E 138 1						62.2	342.0	0.23333	0.23333	-26.1	253.7
			C:GEN:NYPA_AS 1662											
			Remove unit 1 from bus 147788 POLETGT2 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147789 POLETSTG 18.0 155.3 MW dispatch											
			Remove unit 1 from bus 147790 POLETGT1 18.0 155.3 MW dispatch											
1881	1213.0	5964.0	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:SEABROOK 1683											
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch											
1882	1213.0	5964.0	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:SEAB&OMS 1685											
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00000	0.00000	-0.0	-0.0		
			Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch											
1883	1213.1	5964.1	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:MLS3&OMS 1684											
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00000	0.00000	-0.0	-0.0		
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch											
1884	1213.1	5964.1	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:MILLST 3 1682											
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch											
1885	1213.4	5964.4	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:9 MI PT2 1671											
			Remove unit 2 from bus 136700 9M PT 2G 25.0 1126.9 MW dispatch											
1886	1213.4	5964.4	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:SALEM 1677											
			Remove unit 1 from bus 36 SALEM-G1 22.0 1107.4 MW dispatch											
1887	1213.5	5964.5	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.8	300.0	0.12373	0.12372	149.6	299.7
			C:GEN:IND PT 3-New 1885											
			Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1						0.00000	0.02075	506.2	531.3		
			Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2						-0.00025	-0.04128	-1009.3	-1059.4		
1888	1213.6	5964.5	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:PEACHBTM 1678											
			Remove unit 1 from bus 34 PCHBTM 2 22.0 1051.0 MW dispatch											
1889	1213.6	5964.6	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.9	300.0	0.12372	0.12372	149.6	299.7
			C:GEN:IND PT 3 1665											
			Remove unit 1 from bus 147798 IP#3 GEN 22.0 1040.4 MW dispatch											
1890	1213.6	5964.6	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01						149.8	300.0	0.12373	0.12372	149.6	299.7
			C:GEN:IND PT 2-New 1884											
			Open 126288 IP2 345 345 126651 IND PT 2 22.0 1						0.00000	-0.02033	-493.4	-518.0		
			Open 126288 IP2 345 345 126651 IND PT 2 22.0 2						-0.00025	-0.04066	-986.7	-1036.1		



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2611	1215.7	5966.6	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.6	300.0	0.12372			
			Base Case											
3749	1257.3	6008.3	L: 126298 SPRBROOK		345	126517 REACM51	345	SR	550.9	861.0	0.24666			
			Base Case											
3750	1257.3	6008.3	L: 126298 SPRBROOK		345	126518 REACM52	345	SR	550.9	861.0	0.24666			
			Base Case											
3751	1266.4	6017.3	L: 126304 W 49 ST		345	126518 REACM52	345	2	-548.6	-861.0	-0.24666			
			Base Case											
3752	1266.4	6017.3	L: 126304 W 49 ST		345	126517 REACM51	345	1	-548.6	-861.0	-0.24666			
			Base Case											
3753	1418.8	6169.7	L: Interface 16 I-TO-J						3530.2	4949.0	1.00000			
			Base Case											
3754	1451.3	6202.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-46.2	-372.0	-0.22450	-0.22345	-19.6	-343.9
			C:BUS:GOWANUS_S_345					1735						
			Open 126287 GOWANUSS		345	126591 GOWANUS	42SR	345	BY	0.00470	-0.07842	245.5	131.7	
			Open 126287 GOWANUSS		345	126429 GOWNUS2T		138	1	-0.14295	0.00000	228.7	228.7	
			Open 126287 GOWANUSS		345	126622 GATE 3		138	1	-0.00000	0.00000	49.9	49.9	
			Open 126287 GOWANUSS		345	126623 GATE 4		138	1	-0.00000	0.00000	44.2	44.2	
			Open 126285 GOTHLS S		345	126287 GOWANUSS		345	1	0.00947	-0.07145	522.9	419.2	
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	-0.00698	0.00000	0.6	0.6	
3755	1451.3	6202.3	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	46.2	372.0	0.22450	0.22345	19.6	343.9
			C:BUS:GOWANUS_S_345					1735						
			Open 126287 GOWANUSS		345	126591 GOWANUS	42SR	345	BY	-0.00470	-0.07842	245.5	131.7	
			Open 126287 GOWANUSS		345	126429 GOWNUS2T		138	1	0.14295	0.00000	228.7	228.7	
			Open 126287 GOWANUSS		345	126622 GATE 3		138	1	-0.00000	0.00000	49.9	49.9	
			Open 126287 GOWANUSS		345	126623 GATE 4		138	1	-0.00000	0.00000	44.2	44.2	
			Open 126285 GOTHLS S		345	126287 GOWANUSS		345	1	-0.00947	-0.07145	522.9	419.2	
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	0.00698	0.00000	0.6	0.6	
3756	1452.8	6203.8	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-45.7	-372.0	-0.22459	-0.22345	-19.6	-344.2
			C:BUS:GOWANUS_N_345					1734						
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	0.00943	-0.00696	45.9	35.8	
			Open 126286 GOWANUSN		345	126590 GOWANUS	41SR	345	BY	0.01414	-0.07907	245.5	130.6	
			Open 126286 GOWANUSN		345	126427 GOWNUS1T		138	1	-0.13299	-0.00000	230.9	230.9	
			Open 126286 GOWANUSN		345	126620 GATE 1		138	1	0.00943	-0.00000	49.9	49.9	
			Open 126286 GOWANUSN		345	126621 GATE 2		138	1	0.00943	-0.00000	49.9	49.9	
			Open 121003 STARS-01003	13.8	126286	GOWANUSN		345	03	NA				
			Open 126283 GOTHLS N		345	126286 GOWANUSN		345	1	0.00246	0.01626	-99.1	-75.5	
3757	1452.8	6203.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	45.7	372.0	0.22459	0.22345	19.6	344.2
			C:BUS:GOWANUS_N_345					1734						
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	-0.00943	-0.00696	45.9	35.8	
			Open 126286 GOWANUSN		345	126590 GOWANUS	41SR	345	BY	-0.01414	-0.07907	245.5	130.6	
			Open 126286 GOWANUSN		345	126427 GOWNUS1T		138	1	0.13299	-0.00000	230.9	230.9	
			Open 126286 GOWANUSN		345	126620 GATE 1		138	1	-0.00943	-0.00000	49.9	49.9	
			Open 126286 GOWANUSN		345	126621 GATE 2		138	1	-0.00943	-0.00000	49.9	49.9	
			Open 121003 STARS-01003	13.8	126286	GOWANUSN		345	03	NA				
			Open 126283 GOTHLS N		345	126286 GOWANUSN		345	1	-0.00246	0.01626	-99.1	-75.5	
3758	1454.4	6205.4	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-1.1	-342.0	-0.23440	-0.23333	26.1	-313.2
			C:BUS:GOWANUS_S_345					1735						
			Open 126287 GOWANUSS		345	126591 GOWANUS	42SR	345	BY	0.00481	-0.07842	245.5	131.4	
			Open 126287 GOWANUSS		345	126429 GOWNUS2T		138	1	-0.14628	0.00000	228.7	228.7	
			Open 126287 GOWANUSS		345	126622 GATE 3		138	1	0.00000	0.00000	49.9	49.9	
			Open 126287 GOWANUSS		345	126623 GATE 4		138	1	0.00000	0.00000	44.2	44.2	
			Open 126285 GOTHLS S		345	126287 GOWANUSS		345	1	0.00970	-0.07145	522.9	419.0	
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	-0.00718	0.00000	0.6	0.6	
3759	1454.5	6205.5	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	1.1	342.0	0.23440	0.23333	-26.1	313.2
			C:BUS:GOWANUS_S_345					1735						
			Open 126287 GOWANUSS		345	126591 GOWANUS	42SR	345	BY	-0.00481	-0.07842	245.5	131.4	
			Open 126287 GOWANUSS		345	126429 GOWNUS2T		138	1	0.14628	0.00000	228.7	228.7	
			Open 126287 GOWANUSS		345	126622 GATE 3		138	1	0.00000	0.00000	49.9	49.9	
			Open 126287 GOWANUSS		345	126623 GATE 4		138	1	0.00000	0.00000	44.2	44.2	
			Open 126285 GOTHLS S		345	126287 GOWANUSS		345	1	-0.00970	-0.07145	522.9	419.0	
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	0.00718	0.00000	0.6	0.6	
3760	1455.9	6206.9	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-0.6	-342.0	-0.23450	-0.23333	26.1	-313.6
			C:BUS:GOWANUS_N_345					1734						
			Open 126286 GOWANUSN		345	126287 GOWANUSS		345	1	0.00965	-0.00696	45.9	35.8	

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			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY		0.01447	-0.07907	245.5	130.4	
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1		-0.13609	-0.00000	230.9	230.9	
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1		0.00965	-0.00000	49.9	49.9	
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1		0.00965	-0.00000	49.9	49.9	
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1		0.00248	0.01626	-99.1	-75.4	
3761	1456.0	6207.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	0.6	342.0	0.23450	0.23333	-26.1	313.6
			C:BUS:GOWANUS_N_345									1734	
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1		-0.00965	-0.00696	45.9	35.8	
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY		-0.01447	-0.07907	245.5	130.4	
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1		0.13609	-0.00000	230.9	230.9	
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1		-0.00965	-0.00000	49.9	49.9	
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1		-0.00965	-0.00000	49.9	49.9	
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1		-0.00248	0.01626	-99.1	-75.4	
3762	1461.4	6212.3	L: 126295 RAINEY	345	126562 8W DUM	138	8	-70.5	256.0	0.22345			
			Base Case										
3763	1489.2	6240.2	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-39.2	-372.0	-0.22345	-0.22345	-19.6	-352.4
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.04018	0.00000	488.4	488.4	
3764	1489.3	6240.3	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	39.2	372.0	0.22345	0.22345	19.6	352.4
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.04018	0.00000	488.4	488.4	
3765	1489.9	6240.9	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-39.1	-372.0	-0.22345	-0.22345	-19.6	-352.5
			C:BUS:TREMONT_345									1742	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		-0.04018	-0.00002	121.2	121.2	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		-0.04018	0.00002	121.2	121.2	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		-0.04018	-0.00002	123.9	123.9	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		-0.04018	0.00002	118.6	118.6	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.00387	0.00000	3.4	3.4	
3766	1489.9	6240.9	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	39.1	372.0	0.22345	0.22345	19.6	352.5
			C:BUS:TREMONT_345									1742	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		0.04018	-0.00002	121.2	121.2	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		0.04018	0.00002	121.2	121.2	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.04018	-0.00002	123.9	123.9	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.04018	0.00002	118.6	118.6	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00387	0.00000	3.4	3.4	
3767	1491.3	6242.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	6.0	-342.0	-0.23333	-0.23333	26.1	-321.8
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.04130	0.00000	488.4	488.4	
3768	1491.4	6242.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-6.0	342.0	0.23333	0.23333	-26.1	321.8
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1466					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.04130	0.00000	488.4	488.4	
3769	1491.9	6242.9	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	6.1	-342.0	-0.23333	-0.23333	26.1	-322.0
			C:BUS:TREMONT_345									1742	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		-0.04130	-0.00002	121.2	121.2	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		-0.04130	0.00002	121.2	121.2	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		-0.04130	-0.00002	123.9	123.9	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		-0.04130	0.00002	118.6	118.6	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.00399	0.00000	3.4	3.4	
3770	1492.0	6243.0	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	-6.1	342.0	0.23333	0.23333	-26.1	322.0
			C:BUS:TREMONT_345									1742	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		0.04130	-0.00002	121.2	121.2	

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				Open 126466 SECT 11	138	126471 38X02 T	138	1		0.04130	0.00002	121.2	121.2		
				Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA						
				Open 126467 SECT 12	138	126472 38X03 T	138	1		0.04130	-0.00002	123.9	123.9		
				Open 126467 SECT 12	138	126473 38X04 T	138	1		0.04130	0.00002	118.6	118.6		
				Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA						
				Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA						
				Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA						
				Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00399	0.00000	3.4	3.4		
3771	1507.2	6258.2	L:	126481 RAINNEY8W	138	126562 8W DUM	138	1		-35.2	-372.0	-0.22345	-0.22345	-19.6	-356.4
			C:	SPRN-ACDMY				1890							
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.03894	0.00000	401.3	401.3		
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.04283	0.00000	0.7	0.7		
3772	1507.3	6258.3	L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1		35.2	372.0	0.22345	0.22345	19.6	356.4
			C:	SPRN-ACDMY				1890							
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.03894	0.00000	401.3	401.3		
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		0.00000	0.00000	-200.3	-200.3		
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.04283	0.00000	0.7	0.7		
3773	1509.0	6260.0	L:	126480 RAINNEY8E	138	126561 8E DUM	138	1		10.1	-342.0	-0.23333	-0.23333	26.1	-326.0
			C:	SPRN-ACDMY				1890							
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.04002	0.00000	401.3	401.3		
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.04402	0.00000	0.7	0.7		
3774	1509.1	6260.1	L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1		-10.1	342.0	0.23333	0.23333	-26.1	326.0
			C:	SPRN-ACDMY				1890							
				Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.04002	0.00000	401.3	401.3		
				Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.3	-200.3		
				Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.04402	0.00000	0.7	0.7		
3775	1541.6	6292.6	L:	126481 RAINNEY8W	138	126562 8W DUM	138	1		-27.5	-372.0	-0.22345	-0.22345	-19.6	-364.1
			C:	126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
				Open 126374 DUN SO1R	138	126385 E179 ST	138	1		-0.03390	-0.00000	233.9	233.9		
3776	1541.6	6292.6	L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1		27.5	372.0	0.22345	0.22345	19.6	364.1
			C:	126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
				Open 126374 DUN SO1R	138	126385 E179 ST	138	1		0.03390	-0.00000	233.9	233.9		
3777	1542.8	6293.8	L:	126480 RAINNEY8E	138	126561 8E DUM	138	1		18.0	-342.0	-0.23333	-0.23333	26.1	-333.9
			C:	126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
				Open 126374 DUN SO1R	138	126385 E179 ST	138	1		-0.03484	-0.00000	233.9	233.9		
3778	1542.9	6293.9	L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1		-18.0	342.0	0.23333	0.23333	-26.1	333.9
			C:	126374 DUN SO1R	138	126385 E179 ST	138	1	1472						
				Open 126374 DUN SO1R	138	126385 E179 ST	138	1		0.03484	-0.00000	233.9	233.9		
3779	1551.0	6302.0	L:	126481 RAINNEY8W	138	126562 8W DUM	138	1		-25.2	-372.0	-0.22360	-0.22345	-19.6	-366.2
			C:	SER:W90&W74				1693							
				Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		0.00099	-0.15285	-749.1	-986.1		
				Open 126342 W74 TAP	345	126368 DUN NO	138	1		-0.01562	-0.00016	309.1	308.9		
				Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		-0.00064	-0.00158	43.1	40.7		
				Open 126293 PL VILLW	345	126305 WOOD A	345	1		0.00303	0.00000	1.8	1.8		
3780	1551.1	6302.1	L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1		25.2	372.0	0.22360	0.22345	19.6	366.2
			C:	SER:W90&W74				1693							
				Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		-0.00099	-0.15285	-749.1	-986.1		
				Open 126342 W74 TAP	345	126368 DUN NO	138	1		0.01562	-0.00016	309.1	308.9		
				Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		0.00064	-0.00158	43.1	40.7		
				Open 126293 PL VILLW	345	126305 WOOD A	345	1		-0.00303	0.00000	1.8	1.8		
3781	1551.9	6302.9	L:	126481 RAINNEY8W	138	126562 8W DUM	138	1		-24.7	-372.0	-0.22377	-0.22345	-19.6	-366.4
			C:	SER:W89&W73				1694							
				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		0.00101	-0.31584	-824.2	-1314.4		
				Open 126343 W73 TAP	345	126372 DUN SO	138	1		-0.01297	-0.00016	331.8	331.6		
3782	1551.9	6302.9	L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1		24.7	372.0	0.22377	0.22345	19.6	366.4
			C:	SER:W89&W73				1694							
				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		-0.00101	-0.31584	-824.2	-1314.4		
				Open 126343 W73 TAP	345	126372 DUN SO	138	1		0.01297	-0.00016	331.8	331.6		
3783	1552.1	6303.1	L:	126480 RAINNEY8E	138	126561 8E DUM	138	1		20.4	-342.0	-0.23348	-0.23333	26.1	-336.0
			C:	SER:W90&W74				1693							
				Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		0.00101	-0.15285	-749.1	-986.3		
				Open 126342 W74 TAP	345	126368 DUN NO	138	1		-0.01605	-0.00016	309.1	308.9		
				Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		-0.00066	-0.00158	43.1	40.7		

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			Open 126293 PL VILLW	345	126305 WOOD A	345	1		0.00312	0.00000	1.8	1.8	
3784	1552.1	6303.1*L:	126481 RAINNEY8W	138	126562 8W DUM	138	1	-24.3	-372.0	-0.22404	-0.22345	-19.6	-366.4
			C:SIN:120				1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1		-0.00308	0.08645	845.3	979.5	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		-0.00308	0.08645	845.3	979.5	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		0.00147	-0.04128	40.6	-23.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3786	1552.1	6303.1*L:	126481 RAINNEY8W	138	126507 VERNON-W	138	1	24.3	372.0	0.22404	0.22345	19.6	366.4
			C:SIN:120				1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1		0.00308	0.08645	845.3	979.5	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		0.00308	0.08645	845.3	979.5	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		-0.00147	-0.04128	40.6	-23.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3788	1552.2	6303.2 L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-20.4	342.0	0.23348	0.23333	-26.1	336.0
			C:SER:W90&W74				1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1		-0.00101	-0.15285	-749.1	-986.3	
			Open 126342 W74 TAP	345	126368 DUN NO	138	1		0.01605	-0.00016	309.1	308.9	
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1		0.00066	-0.00158	43.1	40.7	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1		-0.00312	0.00000	1.8	1.8	
3789	1552.9	6303.9 L:	126480 RAINNEY8E	138	126561 8E DUM	138	1	20.8	-342.0	-0.23365	-0.23333	26.1	-336.2
			C:SER:W89&W73				1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		0.00104	-0.31584	-824.2	-1314.7	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1		-0.01333	-0.00016	331.8	331.6	
3790	1553.0	6304.0 L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-20.9	342.0	0.23365	0.23333	-26.1	336.2
			C:SER:W89&W73				1694						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		-0.00104	-0.31584	-824.2	-1314.7	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1		0.01333	-0.00016	331.8	331.6	
3791	1553.1	6304.1*L:	126480 RAINNEY8E	138	126561 8E DUM	138	1	21.3	-342.0	-0.23394	-0.23333	26.1	-336.3
			C:SIN:130				1779						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1		-0.00317	0.08645	845.3	979.6	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		-0.00317	0.08645	845.3	979.6	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		0.00151	-0.04128	40.6	-23.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
3793	1553.2	6304.2*L:	126480 RAINNEY8E	138	126506 VERNON-E	138	1	-21.4	342.0	0.23394	0.23333	-26.1	336.3
			C:SIN:130				1779						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1		0.00317	0.08645	845.3	979.6	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2		0.00317	0.08645	845.3	979.6	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		-0.00151	-0.04128	40.6	-23.5	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
11179	1593.0	6344.0 L:	Interface 14 DUNWOODIE-SO					4751.0	6344.0	1.00000			
			Base Case										
11180	1596.1	6347.1 L:	126295 RAINNEY	345	126562 8W DUM	138	8	15.4	372.0	0.22345	0.22345	-70.5	286.1
			C:GEN:NYPA_AS				1662						
			Remove unit 1 from bus	147788 POLETGT2	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147789 POLETSTG	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147790 POLETGT1	18.0	155.3 MW	dispatch						
11185	1625.0	6375.9 L:	126295 RAINNEY	345	126561 8E DUM	138	8	-129.1	252.0	0.23456			
			Base Case										
11186	1632.5	6383.5 L:	126295 RAINNEY	345	126561 8E DUM	138	8	-40.9	342.0	0.23456	0.23456	-129.1	253.8
			C:GEN:NYPA_AS				1662						
			Remove unit 1 from bus	147788 POLETGT2	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147789 POLETSTG	18.0	155.3 MW	dispatch						
			Remove unit 1 from bus	147790 POLETGT1	18.0	155.3 MW	dispatch						

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11203	1654.0	6405.0	L: Interface	17	I-TO-J+K				4750.0	6404.0	1.00000					
			Base Case													
11220	1724.3	6475.3	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		660.8	1196.0	0.31038		0.25424	541.3	979.7	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	159								
			Open 126266 DUNWODIE		345 126601 REAC72		345	SR				0.22239	0.25244	537.5	972.8	
11221	1724.4	6475.3	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		660.8	1196.0	0.31038		0.25424	541.3	979.7	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	159								
			Open 126266 DUNWODIE		345 126601 REAC72		345	SR				0.22239	0.25244	537.5	972.8	
11222	1724.4	6475.3	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		660.8	1196.0	0.31038		0.25424	541.3	979.7	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1474								
			Open 126601 REAC72		345 126641 MOTT HAVEN		345	4				0.22239	0.25244	537.5	972.8	
11223	1724.4	6475.3	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		660.8	1196.0	0.31038		0.25424	541.3	979.7	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1474								
			Open 126601 REAC72		345 126641 MOTT HAVEN		345	4				0.22239	0.25244	537.5	972.8	
11224	1745.4	6496.4	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		657.2	1196.0	0.30867		0.25244	537.5	978.2	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	158								
			Open 126266 DUNWODIE		345 126600 REAC71		345	SR				0.22116	0.25424	541.3	985.0	
11225	1745.4	6496.4	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		657.2	1196.0	0.30867		0.25244	537.5	978.2	
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1473								
			Open 126600 REAC71		345 126641 MOTT HAVEN		345	3				0.22116	0.25424	541.3	985.0	
11226	1745.4	6496.4	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		657.2	1196.0	0.30867		0.25244	537.5	978.2	
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1473								
			Open 126600 REAC71		345 126641 MOTT HAVEN		345	3				0.22116	0.25424	541.3	985.0	
11227	1745.4	6496.4	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		657.2	1196.0	0.30867		0.25244	537.5	978.2	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	158								
			Open 126266 DUNWODIE		345 126600 REAC71		345	SR				0.22116	0.25424	541.3	985.0	
11232	1843.2	6594.2	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		643.2	1196.0	0.29990		0.25424	541.3	1009.9	
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198								
			Open 126298 SPRBROOK		345 126518 REACM52		345	SR				0.18511	0.24666	550.9	1005.5	
11233	1843.2	6594.2	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		643.2	1196.0	0.29990		0.25424	541.3	1009.9	
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197								
			Open 126298 SPRBROOK		345 126517 REACM51		345	SR				0.18511	0.24666	550.9	1005.5	
11234	1843.2	6594.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		643.2	1196.0	0.29990		0.25424	541.3	1009.9	
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197								
			Open 126298 SPRBROOK		345 126517 REACM51		345	SR				0.18511	0.24666	550.9	1005.5	
11235	1843.2	6594.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		643.2	1196.0	0.29990		0.25424	541.3	1009.9	
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198								
			Open 126298 SPRBROOK		345 126518 REACM52		345	SR				0.18511	0.24666	550.9	1005.5	
11236	1844.6	6595.6	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		642.8	1196.0	0.29990		0.25424	541.3	1010.2	
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468								
			Open 126304 W 49 ST		345 126517 REACM51		345	1				-0.18511	-0.24666	-548.6	-1003.6	
11237	1844.6	6595.6	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		642.8	1196.0	0.29990		0.25424	541.3	1010.2	
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469								
			Open 126304 W 49 ST		345 126518 REACM52		345	2				-0.18511	-0.24666	-548.6	-1003.6	
11238	1844.6	6595.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		642.8	1196.0	0.29990		0.25424	541.3	1010.2	
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468								
			Open 126304 W 49 ST		345 126517 REACM51		345	1				-0.18511	-0.24666	-548.6	-1003.6	
11239	1844.6	6595.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		642.8	1196.0	0.29990		0.25424	541.3	1010.2	
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469								
			Open 126304 W 49 ST		345 126518 REACM52		345	2				-0.18511	-0.24666	-548.6	-1003.6	
11240	1852.8	6603.8	L: 126295 RAINEY	345	126562 8W DUM	138	8		-44.0	372.0	0.22450		0.22345	-70.5	343.5	
			C:BUS:GOWANUS_S_345					1735								
			Open 126287 GOWANUSS	345	126591 GOWANUS	42SR	345	BY				-0.00470	-0.07842	245.5	100.2	
			Open 126287 GOWANUSS	345	126429 GOWNUS2T		138	1				0.14295	0.00000	228.7	228.7	
			Open 126287 GOWANUSS	345	126622 GATE 3		138	1				-0.00000	0.00000	49.9	49.9	
			Open 126287 GOWANUSS	345	126623 GATE 4		138	1				-0.00000	0.00000	44.2	44.2	
			Open 126285 GOTHLS S	345	126287 GOWANUSS		345	1				-0.00947	-0.07145	522.9	390.5	
			Open 126286 GOWANUSN	345	126287 GOWANUSS		345	1				0.00698	0.00000	0.6	0.6	
11241	1854.2	6605.2	L: 126295 RAINEY	345	126562 8W DUM	138	8		-44.4	372.0	0.22459		0.22345	-70.5	343.8	
			C:BUS:GOWANUS_N_345					1734								
			Open 126286 GOWANUSN	345	126287 GOWANUSS		345	1				-0.00943	-0.00696	45.9	33.0	
			Open 126286 GOWANUSN	345	126590 GOWANUS	41SR	345	BY				-0.01414	-0.07907	245.5	98.9	
			Open 126286 GOWANUSN	345	126427 GOWNUS1T		138	1				0.13299	-0.00000	230.9	230.9	
			Open 126286 GOWANUSN	345	126620 GATE 1		138	1				-0.00943	-0.00000	49.9	49.9	
			Open 126286 GOWANUSN	345	126621 GATE 2		138	1				-0.00943	-0.00000	49.9	49.9	

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				Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03	NA								
				Open 126283 GOTHLS N		345	126286	GOWANUSN	345	1			-0.00246	0.01626	-99.1	-68.9		
11242	1871.2	6622.2	L:	126266 DUNWODIE		345	126601	REAC72	345	SR	638.8	1196.0	0.29778	0.25244	537.5	1009.9		
			C:	126298 SPRBROOK		345	126517	REACM51	345	SR							197	
				Open 126298 SPRBROOK			345	126517	REACM51	345	SR			0.18380	0.24666	550.9	1012.4	
11243	1871.2	6622.2	L:	126266 DUNWODIE		345	126601	REAC72	345	SR	638.8	1196.0	0.29778	0.25244	537.5	1009.9		
			C:	126298 SPRBROOK		345	126518	REACM52	345	SR							198	
				Open 126298 SPRBROOK			345	126518	REACM52	345	SR			0.18380	0.24666	550.9	1012.4	
11244	1871.2	6622.2	L:	126601 REAC72		345	126641	MOTT HAVEN	345	4	638.8	1196.0	0.29778	0.25244	537.5	1009.9		
			C:	126298 SPRBROOK		345	126517	REACM51	345	SR							197	
				Open 126298 SPRBROOK			345	126517	REACM51	345	SR			0.18380	0.24666	550.9	1012.4	
11245	1871.2	6622.2	L:	126601 REAC72		345	126641	MOTT HAVEN	345	4	638.8	1196.0	0.29778	0.25244	537.5	1009.9		
			C:	126298 SPRBROOK		345	126518	REACM52	345	SR							198	
				Open 126298 SPRBROOK			345	126518	REACM52	345	SR			0.18380	0.24666	550.9	1012.4	
11246	1872.6	6623.6	L:	126266 DUNWODIE		345	126601	REAC72	345	SR	638.4	1196.0	0.29778	0.25244	537.5	1010.3		
			C:	126304 W 49 ST		345	126518	REACM52	345	2							1469	
				Open 126304 W 49 ST			345	126518	REACM52	345	2			-0.18380	-0.24666	-548.6	-1010.5	
11247	1872.6	6623.6	L:	126266 DUNWODIE		345	126601	REAC72	345	SR	638.4	1196.0	0.29778	0.25244	537.5	1010.3		
			C:	126304 W 49 ST		345	126517	REACM51	345	1							1468	
				Open 126304 W 49 ST			345	126517	REACM51	345	1			-0.18380	-0.24666	-548.6	-1010.5	
11248	1872.6	6623.6	L:	126601 REAC72		345	126641	MOTT HAVEN	345	4	638.4	1196.0	0.29778	0.25244	537.5	1010.3		
			C:	126304 W 49 ST		345	126518	REACM52	345	2							1469	
				Open 126304 W 49 ST			345	126518	REACM52	345	2			-0.18380	-0.24666	-548.6	-1010.5	
11249	1872.6	6623.6	L:	126601 REAC72		345	126641	MOTT HAVEN	345	4	638.4	1196.0	0.29778	0.25244	537.5	1010.3		
			C:	126304 W 49 ST		345	126517	REACM51	345	1							1468	
				Open 126304 W 49 ST			345	126517	REACM51	345	1			-0.18380	-0.24666	-548.6	-1010.5	
11250	1884.1	6635.1	L:	126295 RAINEY		345	126561	8E DUM	138	8	-101.9	342.0	0.23563	0.23456	-129.1	312.8		
			C:	BUS:GOWANUS_S_345													1735	
				Open 126287 GOWANUSS		345	126591	GOWANUS	42SR	345	BY			-0.00481	-0.07842	245.5	97.7	
				Open 126287 GOWANUSS		345	126429	GOWNUS2T	138	1				0.14628	0.00000	228.7	228.7	
				Open 126287 GOWANUSS		345	126622	GATE 3	138	1				0.00000	0.00000	49.9	49.9	
				Open 126287 GOWANUSS		345	126623	GATE 4	138	1				0.00000	0.00000	44.2	44.2	
				Open 126285 GOTHLS S		345	126287	GOWANUSS	345	1				-0.00970	-0.07145	522.9	388.3	
				Open 126286 GOWANUSN		345	126287	GOWANUSS	345	1				0.00718	0.00000	0.6	0.6	
11251	1885.4	6636.4	L:	126295 RAINEY		345	126561	8E DUM	138	8	-102.4	342.0	0.23573	0.23456	-129.1	313.1		
			C:	BUS:GOWANUS_N_345													1734	
				Open 126286 GOWANUSN		345	126287	GOWANUSS	345	1				-0.00965	-0.00696	45.9	32.8	
				Open 126286 GOWANUSN		345	126590	GOWANUS	41SR	345	BY			-0.01447	-0.07907	245.5	96.4	
				Open 126286 GOWANUSN		345	126427	GOWNUS1T	138	1				0.13609	-0.00000	230.9	230.9	
				Open 126286 GOWANUSN		345	126620	GATE 1	138	1				-0.00965	-0.00000	49.9	49.9	
				Open 126286 GOWANUSN		345	126621	GATE 2	138	1				-0.00965	-0.00000	49.9	49.9	
				Open 121003 STARS-01003		13.8	126286	GOWANUSN	345	03	NA							
				Open 126283 GOTHLS N		345	126286	GOWANUSN	345	1				-0.00248	0.01626	-99.1	-68.4	
11252	1892.7	6643.6	L:	126295 RAINEY		345	126562	8W DUM	138	8	-50.9	372.0	0.22345	0.22345	-70.5	352.4		
			C:	126298 SPRBROOK		345	126301	TREMONT	345	1							1466	
				Open 126298 SPRBROOK			345	126301	TREMONT	345	1			0.04018	0.00000	488.4	488.4	
11253	1893.3	6644.3	L:	126295 RAINEY		345	126562	8W DUM	138	8	-51.1	372.0	0.22345	0.22345	-70.5	352.5		
			C:	BUS:TREMONT_345													1742	
				Open 126466 SECT 11		138	126470	38X01 T	138	1				0.04018	-0.00002	121.2	121.2	
				Open 126466 SECT 11		138	126471	38X02 T	138	1				0.04018	0.00002	121.2	121.2	
				Open 126462 PARK TR1		138	126466	SECT 11	138	1	NA							
				Open 126467 SECT 12		138	126472	38X03 T	138	1				0.04018	-0.00002	123.9	123.9	
				Open 126467 SECT 12		138	126473	38X04 T	138	1				0.04018	0.00002	118.6	118.6	
				Open 126463 PARK TR2		138	126467	SECT 12	138	1	NA							
				Open 126301 TREMONT		345	126462	PARK TR1	138	1	NA							
				Open 126301 TREMONT		345	126463	PARK TR2	138	1	NA							
				Open 126298 SPRBROOK		345	126301	TREMONT	345	1				-0.00387	0.00000	3.4	3.4	
11254	1910.7	6661.7	L:	126295 RAINEY		345	126562	8W DUM	138	8	-54.9	372.0	0.22345	0.22345	-70.5	356.4		
			C:	SPRN-ACDMY													1890	
				Open 126298 SPRBROOK		345	126847	ACADEMY	345	1				0.03894	0.00000	401.3	401.3	
				Open 126780 SCK-PARW		138	126847	ACADEMY	345	1				0.00000	0.00000	-200.3	-200.3	
				Open 126781 SCK-PARE		138	126847	ACADEMY	345	1				-0.04283	0.00000	0.7	0.7	
11255	1922.7	6673.7	L:	126295 RAINEY		345	126561	8E DUM	138	8	-109.0	342.0	0.23456	0.23456	-129.1	321.8		
			C:	126298 SPRBROOK		345	126301	TREMONT	345	1							1466	
				Open 126298 SPRBROOK			345	126301	TREMONT	345	1			0.04130	0.00000	488.4	488.4	

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11256	1923.3	6674.3	L: 126295 RAINNEY	345	126561 8E DUM	138 8	-109.1	342.0	0.23456	0.23456	-129.1	322.0
			C:BUS:TREMONT_345			1742						
			Open 126466 SECT 11	138	126470 38X01 T	138 1			0.04130	-0.00002	121.2	121.2
			Open 126466 SECT 11	138	126471 38X02 T	138 1			0.04130	0.00002	121.2	121.2
			Open 126462 PARK TR1	138	126466 SECT 11	138 1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138 1			0.04130	-0.00002	123.9	123.9
			Open 126467 SECT 12	138	126473 38X04 T	138 1			0.04130	0.00002	118.6	118.6
			Open 126463 PARK TR2	138	126467 SECT 12	138 1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138 1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138 1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345 1			-0.00399	0.00000	3.4	3.4
11257	1940.3	6691.3	L: 126295 RAINNEY	345	126561 8E DUM	138 8	-113.1	342.0	0.23456	0.23456	-129.1	326.0
			C:SPRN-ACDMY			1890						
			Open 126298 SPRBROOK	345	126847 ACADEMY	345 1			0.04002	0.00000	401.3	401.3
			Open 126780 SCK-PARW	138	126847 ACADEMY	345 1			-0.00000	0.00000	-200.3	-200.3
			Open 126781 SCK-PARE	138	126847 ACADEMY	345 1			-0.04402	0.00000	0.7	0.7
11258	1945.0	6696.0	L: 126295 RAINNEY	345	126562 8W DUM	138 8	-62.6	372.0	0.22345	0.22345	-70.5	364.1
			C:126374 DUN SO1R	138	126385 E179 ST	138 1	1472					
			Open 126374 DUN SO1R	138	126385 E179 ST	138 1			0.03390	-0.00000	233.9	233.9
11259	1954.2	6705.2	L: 126295 RAINNEY	345	126562 8W DUM	138 8	-65.0	372.0	0.22360	0.22345	-70.5	366.1
			C:SER:W90&W74			1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345 1			-0.00099	-0.15285	-749.1	-1047.8
			Open 126342 W74 TAP	345	126368 DUN NO	138 1			0.01562	-0.00016	309.1	308.8
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8 1			0.00064	-0.00158	43.1	40.0
			Open 126293 PL VILLW	345	126305 WOOD A	345 1			-0.00303	0.00000	1.8	1.8
11260	1954.5	6705.5	L: 126295 RAINNEY	345	126562 8W DUM	138 8	-65.9	372.0	0.22404	0.22345	-70.5	366.2
			C:SIN:130			1779						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00308	0.08645	845.3	1014.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00308	0.08645	845.3	1014.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345 1			-0.00147	-0.04128	40.6	-40.1
			Open 126263 BUCHANAN S	345	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch					
11261	1954.5	6705.5*L:	126295 RAINNEY	345	126562 8W DUM	138 8	-65.9	372.0	0.22404	0.22345	-70.5	366.2
			C:SIN:120			1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00308	0.08645	845.3	1014.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00308	0.08645	845.3	1014.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345 1			-0.00147	-0.04128	40.6	-40.1
			Open 126263 BUCHANAN S	345	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch					
11305	1973.9	6724.9	L: 126295 RAINNEY	345	126561 8E DUM	138 8	-121.0	342.0	0.23456	0.23456	-129.1	333.9
			C:126374 DUN SO1R	138	126385 E179 ST	138 1	1472					
			Open 126374 DUN SO1R	138	126385 E179 ST	138 1			0.03484	-0.00000	233.9	233.9
13089	1982.9	6733.9	L: 126295 RAINNEY	345	126561 8E DUM	138 8	-123.4	342.0	0.23471	0.23456	-129.1	336.0
			C:SER:W90&W74			1693						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345 1			-0.00101	-0.15285	-749.1	-1052.1
			Open 126342 W74 TAP	345	126368 DUN NO	138 1			0.01605	-0.00016	309.1	308.8
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8 1			0.00066	-0.00158	43.1	40.0
			Open 126293 PL VILLW	345	126305 WOOD A	345 1			-0.00312	0.00000	1.8	1.8
13095	1983.1	6734.1	L: 126295 RAINNEY	345	126561 8E DUM	138 8	-124.4	342.0	0.23517	0.23456	-129.1	336.0
			C:SIN:130			1779						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00317	0.08645	845.3	1016.8
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00317	0.08645	845.3	1016.8
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345 1			-0.00151	-0.04128	40.6	-41.2
			Open 126263 BUCHANAN S	345	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA					
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch					
13096	1983.1	6734.1*L:	126295 RAINNEY	345	126561 8E DUM	138 8	-124.4	342.0	0.23517	0.23456	-129.1	336.0
			C:SIN:120			1778						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 1			0.00317	0.08645	845.3	1016.8
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345 2			0.00317	0.08645	845.3	1016.8

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				Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1		-0.00151	-0.04128	40.6	-41.2
				Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA				
				Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA				
				Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch			
14951	2016.2	6767.2	L:	126295 RAINEY	345	126641 MOTT HAVEN	345	3		-254.6	-783.0	-0.26208	
				Base Case									
14962	2037.8	6788.8	L:	125002 ROSETON	345	126281 FISHKILL	345	1		1252.6	1935.0	0.33486	
				Base Case									
14980	2226.0	6977.0	L:	126295 RAINEY	345	126641 MOTT HAVEN	345	4		-238.5	-783.0	-0.24461	
				Base Case									
14983	2318.3	7069.2	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		606.6	1196.0	0.25424	0.25424 541.3 1130.7
				C:GEN:SCS AST					1663				
				Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch			
14984	2318.3	7069.2	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		606.6	1196.0	0.25424	0.25424 541.3 1130.7
				C:GEN:SCS AST					1663				
				Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch			
14985	2351.3	7102.3	L:	126266 DUNWODIE	345	126601 REAC72	345	SR		602.4	1196.0	0.25244	0.25244 537.5 1131.1
				C:GEN:SCS AST					1663				
				Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch			
14986	2351.3	7102.3	L:	126601 REAC72	345	126641 MOTT HAVEN	345	4		602.4	1196.0	0.25244	0.25244 537.5 1131.1
				C:GEN:SCS AST					1663				
				Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch			
				Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch			
14987	2412.1	7163.1	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		582.7	1196.0	0.25424	0.25424 541.3 1154.5
				C:126294 PLTVLLEY	345	999294 PV_RCT_1	416	1	187				
				Open 126294 PLTVLLEY	345	999294 PV_RCT_1	416	1		0.04610	0.00000	900.0	900.0
14988	2412.1	7163.1	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		582.7	1196.0	0.25424	0.25424 541.3 1154.5
				C:126294 PLTVLLEY	345	999294 PV_RCT_1	416	1	187				
				Open 126294 PLTVLLEY	345	999294 PV_RCT_1	416	1		0.04610	0.00000	900.0	900.0
14989	2444.5	7195.5	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		574.5	1196.0	0.25424	0.25424 541.3 1162.8
				C:BUS:SHORE_RD_345					1732				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.05334	-0.00000	310.8	310.8
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.05334	-0.00000	309.7	309.7
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.06544	0.00000	2.3	2.3
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		0.06544	0.00000	-0.0	-0.0
14990	2444.5	7195.5	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		574.5	1196.0	0.25424	0.25424 541.3 1162.8
				C:BUS:SHORE_RD_345					1732				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.05334	-0.00000	310.8	310.8
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.05334	-0.00000	309.7	309.7
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.06544	0.00000	2.3	2.3
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		0.06544	0.00000	-0.0	-0.0
14991	2444.6	7195.6*L:	L:	126266 DUNWODIE	345	126600 REAC71	345	SR		574.5	1196.0	0.25424	0.25424 541.3 1162.8
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.05334	-0.00000	622.7	622.7
14992	2444.6	7195.6*L:	L:	126600 REAC71	345	126641 MOTT HAVEN	345	3		574.5	1196.0	0.25424	0.25424 541.3 1162.8
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.05334	-0.00000	622.7	622.7
14993	2445.2	7196.2	L:	126266 DUNWODIE	345	126601 REAC72	345	SR		578.7	1196.0	0.25244	0.25244 537.5 1154.8
				C:126294 PLTVLLEY	345	999294 PV_RCT_1	416	1	187				
				Open 126294 PLTVLLEY	345	999294 PV_RCT_1	416	1		0.04578	0.00000	900.0	900.0
14994	2445.2	7196.2	L:	126601 REAC72	345	126641 MOTT HAVEN	345	4		578.7	1196.0	0.25244	0.25244 537.5 1154.8
				C:126294 PLTVLLEY	345	999294 PV_RCT_1	416	1	187				
				Open 126294 PLTVLLEY	345	999294 PV_RCT_1	416	1		0.04578	0.00000	900.0	900.0
15001	2477.6	7228.6	L:	126266 DUNWODIE	345	126601 REAC72	345	SR		570.5	1196.0	0.25244	0.25244 537.5 1163.0
				C:BUS:SHORE_RD_345					1732				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.05297	-0.00000	310.8	310.8
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.05297	-0.00000	309.7	309.7



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			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.06498	0.00000	2.3	2.3
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.06498	0.00000	-0.0	-0.0
15002	2477.6	7228.6	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	570.5	1196.0	0.25244	0.25244	537.5	1163.0
			C:BUS:SHORE_RD_345										1732
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.05297	-0.00000	310.8	310.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.05297	-0.00000	309.7	309.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.06498	0.00000	2.3	2.3
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.06498	0.00000	-0.0	-0.0
15003	2477.7	7228.7	*L: 126266 DUNWODIE	345	126601 REAC72	345	SR	570.5	1196.0	0.25244	0.25244	537.5	1163.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05297	-0.00000	622.7	622.7
15004	2477.7	7228.7	*L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	570.5	1196.0	0.25244	0.25244	537.5	1163.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05297	-0.00000	622.7	622.7
18607	2596.0	7347.0	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	663.2	1434.0	0.29693	0.24666	550.9	1191.2
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.20383	0.24666	550.9	1191.2
18608	2596.0	7347.0	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	663.2	1434.0	0.29693	0.24666	550.9	1191.2
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.20383	0.24666	550.9	1191.2
18625	2597.5	7348.5	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	662.7	1434.0	0.29693	0.24666	550.9	1191.6
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468					
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.20383	-0.24666	-548.6	-1189.3
18626	2597.5	7348.5	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	662.7	1434.0	0.29693	0.24666	550.9	1191.6
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469					
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.20383	-0.24666	-548.6	-1189.3
18729	2603.5	7354.5	L: 126304 W 49 ST	345	126517 REACM51	345	1	-660.9	-1434.0	-0.29693	-0.24666	-548.6	-1190.8
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.20383	0.24666	550.9	1193.1
18730	2603.5	7354.5	L: 126304 W 49 ST	345	126518 REACM52	345	2	-660.9	-1434.0	-0.29693	-0.24666	-548.6	-1190.8
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.20383	0.24666	550.9	1193.1
18785	2605.0	7356.0	L: 126304 W 49 ST	345	126517 REACM51	345	1	-660.5	-1434.0	-0.29693	-0.24666	-548.6	-1191.2
			C:126304 W 49 ST	345	126518 REACM52	345	2	1469					
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.20383	-0.24666	-548.6	-1191.2
18786	2605.0	7356.0	L: 126304 W 49 ST	345	126518 REACM52	345	2	-660.5	-1434.0	-0.29693	-0.24666	-548.6	-1191.2
			C:126304 W 49 ST	345	126517 REACM51	345	1	1468					
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.20383	-0.24666	-548.6	-1191.2
22277	2680.0	7430.9	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	158					
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			0.18165	0.25424	541.3	1222.6
22278	2680.0	7430.9	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	158					
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR			0.18165	0.25424	541.3	1222.6
22279	2680.0	7430.9	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1473					
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			0.18165	0.25424	541.3	1222.6
22280	2680.0	7430.9	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	649.2	1434.0	0.29284	0.24666	550.9	1211.9
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1473					
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			0.18165	0.25424	541.3	1222.6
22289	2686.5	7437.4	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	159					
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			0.18136	0.25244	537.5	1215.7
22290	2686.5	7437.4	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	159					
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR			0.18136	0.25244	537.5	1215.7
22291	2686.5	7437.4	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1474					
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			0.18136	0.25244	537.5	1215.7
22292	2686.5	7437.4	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	648.4	1434.0	0.29244	0.24666	550.9	1213.5
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1474					
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4			0.18136	0.25244	537.5	1215.7
22293	2687.6	7438.6	L: 126304 W 49 ST	345	126517 REACM51	345	1	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1473					
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3			-0.18165	0.25424	541.3	1224.6

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22294	2687.6	7438.6	L: 126304 W 49 ST	345	126518 REACM52	345	2	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6	
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3							
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				-0.18165	0.25424	541.3	1224.6
22295	2687.6	7438.6	L: 126304 W 49 ST	345	126517 REACM51	345	1	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR							
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.18165	0.25424	541.3	1224.6
22296	2687.6	7438.6	L: 126304 W 49 ST	345	126518 REACM52	345	2	-647.0	-1434.0	-0.29284	-0.24666	-548.6	-1211.6	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR							
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.18165	0.25424	541.3	1224.6
22307	2694.1	7445.1	L: 126304 W 49 ST	345	126517 REACM51	345	1	-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR							
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.18136	0.25244	537.5	1217.6
22308	2694.1	7445.1	L: 126304 W 49 ST	345	126518 REACM52	345	2	-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR							
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.18136	0.25244	537.5	1217.6
22309	2694.1	7445.1	L: 126304 W 49 ST	345	126517 REACM51	345	1	-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4							
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.18136	0.25244	537.5	1217.6
22310	2694.1	7445.1	L: 126304 W 49 ST	345	126518 REACM52	345	2	-646.1	-1434.0	-0.29244	-0.24666	-548.6	-1213.2	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4							
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.18136	0.25244	537.5	1217.6
22321	2705.1	7456.1	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-359.7	-1196.0	-0.30915	-0.26208	-254.6	-963.6	
			C:126298 SPRBROOK	345	126518 REACM52	345	SR							
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR				-0.19082	0.24666	550.9	1218.1
22322	2705.1	7456.1	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-359.7	-1196.0	-0.30915	-0.26208	-254.6	-963.6	
			C:126298 SPRBROOK	345	126517 REACM51	345	SR							
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR				-0.19082	0.24666	550.9	1218.1
22323	2706.5	7457.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-359.3	-1196.0	-0.30915	-0.26208	-254.6	-963.9	
			C:126304 W 49 ST	345	126517 REACM51	345	1							
			Open 126304 W 49 ST	345	126517 REACM51	345	1				0.19082	-0.24666	-548.6	-1216.2
22324	2706.5	7457.5	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-359.3	-1196.0	-0.30915	-0.26208	-254.6	-963.9	
			C:126304 W 49 ST	345	126518 REACM52	345	2							
			Open 126304 W 49 ST	345	126518 REACM52	345	2				0.19082	-0.24666	-548.6	-1216.2
22415	2818.4	7569.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-420.8	-1120.0	-0.24808	-0.24808	-414.4	-1113.6	
			C:SIN:250											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW									
22422	2823.2	7574.2	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114.8	
			C:SIN:120											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00000	0.08645	845.3	1089.4
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00000	0.08645	845.3	1089.4
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.00000	-0.04128	40.6	-75.9
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW									
22423	2823.2	7574.2	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114.8	
			C:SIN:130											
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00000	0.08645	845.3	1089.4
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00000	0.08645	845.3	1089.4
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.00000	-0.04128	40.6	-75.9
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1							
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2							
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW									
22428	2840.3	7591.3	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119.0	
			C:GEN:SEAB&OMS											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									
22429	2840.3	7591.3	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119.0	
			C:GEN:SEABROOK											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW									
22430	2840.4	7591.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.24808	-0.24808	-414.4	-1119.1	
			C:GEN:MLS3&OMS											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0

DunwoodieSouthOpen

			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
22431	2840.4	7591.4	L: 125002 ROSETON 345 125190 ROSE GN1	24.0	1			-415.3	-1120.0	-0.24808		-0.24808	-414.4 -1119.1
			C:GEN:MILLST 3										1682
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
22432	2840.9	7591.8	L: 125002 ROSETON 345 125190 ROSE GN1	24.0	1			-415.2	-1120.0	-0.24808		-0.24808	-414.4 -1119.2
			C:GEN:9 MI PT2										1671
			Remove unit 2 from bus 136700 9M PT 2G	25.0	1126.9	MW	dispatch						
22433	2840.9	7591.8	L: 125002 ROSETON 345 125190 ROSE GN1	24.0	1			-415.2	-1120.0	-0.24811		-0.24808	-414.4 -1119.2
			C:GEN:IND PT 3-New										1885
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1				0.00000	0.02075	506.2	565.1	
			Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2				0.00072	-0.04128	-1009.3	-1126.6	
22434	2840.9	7591.9	*L: 125002 ROSETON 345 125190 ROSE GN1	24.0	1			-415.2	-1120.0	-0.24808		-0.24808	-414.4 -1119.2
			C:GEN:SALEM										1677
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW	dispatch						
24302	2978.4	7729.4	L: 126295 RAINEY 345 126641 MOTT HAVEN	345	4			-336.6	-1196.0	-0.28854		-0.24461	-238.5 -967.1
			C:126298 SPRBROOK 345 126518 REACM52	345	SR								198
			Open 126298 SPRBROOK 345 126518 REACM52	345	SR				-0.17810	0.24666	550.9	1285.5	
24303	2978.4	7729.4	L: 126295 RAINEY 345 126641 MOTT HAVEN	345	4			-336.6	-1196.0	-0.28854		-0.24461	-238.5 -967.1
			C:126298 SPRBROOK 345 126517 REACM51	345	SR								197
			Open 126298 SPRBROOK 345 126517 REACM51	345	SR				-0.17810	0.24666	550.9	1285.5	
24304	2979.8	7730.8	L: 126295 RAINEY 345 126641 MOTT HAVEN	345	4			-336.2	-1196.0	-0.28854		-0.24461	-238.5 -967.4
			C:126304 W 49 ST 345 126518 REACM52	345	2								1469
			Open 126304 W 49 ST 345 126518 REACM52	345	2				0.17810	-0.24666	-548.6	-1283.6	
24305	2979.8	7730.8	L: 126295 RAINEY 345 126641 MOTT HAVEN	345	4			-336.2	-1196.0	-0.28854		-0.24461	-238.5 -967.4
			C:126304 W 49 ST 345 126517 REACM51	345	1								1468
			Open 126304 W 49 ST 345 126517 REACM51	345	1				0.17810	-0.24666	-548.6	-1283.6	

# I-to-K

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, SEP 08 2011 17:10  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-LIPA-Import-y50-653mw.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 34808  
 First violation - -662.8 MW.

Study transfer. From I\_EXPORT To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 34808 violations

Interface-1 Interface 55 I-to-K Init.Flow= 1255.80 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	_Ncon	Flow	Rating	LODF	Init Final
1	-662.8	593.0	L: Interface 19 LIPA IMPORT Base Case	3438.8	2776.0	1.00000		
2	-156.0	1099.8	L: Interface 78 LIPA Export Base Case	-2872.0	-2716.0	-1.00000		
3	20.9	1276.7	L: 126452 HUDAVE E 138 126455 JAMAICA 138 1 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1	403.7	406.0	0.11091	0.00000	335.3 335.3
4	20.9	1276.7	L: 126452 HUDAVE E 138 126455 JAMAICA 138 2 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1	403.7	406.0	0.11091	0.00000	335.3 335.3
5	23.3	1279.1	L: 126452 HUDAVE E 138 126455 JAMAICA 138 1 C:BUS:SHORE_RD_345 1735 Open 128835 SHORE RD 345 129293 SHORE RD 138 1 Open 128835 SHORE RD 345 129293 SHORE RD 138 2 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1 Open 150 DUNWD SW 345 126266 DUNWODIE 345 1	403.4	406.0	0.11091	0.00000	335.3 335.3
6	23.3	1279.1	L: 126452 HUDAVE E 138 126455 JAMAICA 138 2 C:BUS:SHORE_RD_345 1735 Open 128835 SHORE RD 345 129293 SHORE RD 138 1 Open 128835 SHORE RD 345 129293 SHORE RD 138 2 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1 Open 150 DUNWD SW 345 126266 DUNWODIE 345 1	403.4	406.0	0.11091	0.00000	335.3 335.3
7	36.7	1292.5	L: 126266 DUNWODIE 345 128835 SHORE RD 345 1 Base Case	616.3	653.0	1.00000		
8	105.2	1361.0	L: Interface 55 I-to-K Base Case	1255.8	1361.0	1.00000		
9	105.2	1361.0	L: Interface 56 K-to-I Base Case	-1255.8	-1361.0	-1.00000		
10	137.0	1392.8	L: 126280 FARRAGUT TX9 345 126437 FGT_X9 138 1 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1	205.9	216.0	0.07398	-0.00000	160.3 160.3
11	139.5	1395.3	L: 126280 FARRAGUT TX9 345 126437 FGT_X9 138 1 C:BUS:SHORE_RD_345 1735 Open 128835 SHORE RD 345 129293 SHORE RD 138 1	205.7	216.0	0.07398	-0.00000	160.3 160.3
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1				0.07398	0.50089 307.6 377.4

I-to-K

				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.07398	0.49911	306.5	376.1
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00827	0.00000	2.2	2.2
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00827	0.00000	0.0	0.0
12	156.5	1412.3	L:	126277 FARRAGUT	345	126451 FGT_X8	138	1	204.4	216.0	0.07396	-0.00000	158.8	158.8	
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.07396	1.00000	616.3	772.8
13	157.3	1413.1	L:	126277 FARRAGUT	345	126436 FGT_X10	138	1	204.4	216.0	0.07389	-0.00000	158.8	158.8	
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.07389	1.00000	616.3	773.5
14	159.0	1414.7	L:	126277 FARRAGUT	345	126451 FGT_X8	138	1	204.2	216.0	0.07396	-0.00000	158.8	158.8	
			C:	BUS:SHORE_RD_345					1735						
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.07396	0.50089	307.6	387.2
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.07396	0.49911	306.5	385.8
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00827	0.00000	2.2	2.2
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00827	0.00000	0.0	0.0
15	159.7	1415.5	L:	126277 FARRAGUT	345	126436 FGT_X10	138	1	204.2	216.0	0.07389	-0.00000	158.8	158.8	
			C:	BUS:SHORE_RD_345					1735						
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.07389	0.50089	307.6	387.6
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.07389	0.49911	306.5	386.2
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00826	0.00000	2.2	2.2
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00826	0.00000	0.0	0.0
16	166.4	1422.2	L:	InterFace	15	I-to-K			1254.6	1421.0	1.00000				
				Base Case											
17	217.3	1473.1	L:	129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	107.5	118.0	0.04840				
				Base Case											
18	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	147834 NIAG 345	345	147841 NIAGAR2E	230	1	1322						
				Open 147834 NIAG 345	345	147841 NIAGAR2E	230	1				0.00000	0.00001	-69.6	-69.6
19	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	135301-135450-1					1846						
				Open 135301 BETH-150	115	135450 GRDNVL1	115	1				0.00000	0.00000	-18.5	-18.5
20	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	137508 INMAN RD	115	137881 GROOMS	115	1	1136						
				Open 137508 INMAN RD	115	137881 GROOMS	115	1				0.00000	-0.00003	-2.9	-2.9
21	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	136761 BU+LY+MO	115	137221 BOONVL	115	1	970						
				Open 136761 BU+LY+MO	115	137221 BOONVL	115	1				0.00000	-0.00000	71.6	71.6
22	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	135547 HOOKNRTH	115	147954 HOOKRN85	115	1	731						
				Open 135547 HOOKNRTH	115	147954 HOOKRN85	115	1				0.00000	0.00000	34.6	34.6
23	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	137502 GBSH+LGE	115	137510 JMC2+9TP	115	1	1126						
				Open 137502 GBSH+LGE	115	137510 JMC2+9TP	115	1				0.00000	0.00001	-10.6	-10.6
24	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	136159 BRIDGE 7	115	136206 HDSN-7	115	1	813						
				Open 136159 BRIDGE 7	115	136206 HDSN-7	115	1				0.00000	-0.00000	42.7	42.7
25	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	130804 DEL T115	115	130805 FRASR115	115	1	361						
				Open 130804 DEL T115	115	130805 FRASR115	115	1				0.00000	0.00015	-138.5	-138.5
26	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	137235 PORTER 1	115	147905 ILION	115	1	1067						
				Open 137235 PORTER 1	115	147905 ILION	115	1				0.00000	0.00000	42.5	42.5
27	255.0	1510.8	*L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250	0.99250	46.9	300.0	
			C:	135251 S RIPLEY	230	200654 ERIE E	230	1	1479						
				Open 135251 S RIPLEY	230	200654 ERIE E	230	1				0.00000	0.00002	365.9	365.9
1148	255.0	1510.8	L:	120801 STARS-00901	13.8	126292 PL VILLE	345	01	46.9	300.0	0.99250				

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			Base Case											
1887	348.2	1604.0	L: 128835 SHORE RD	345 129293 SHORE RD	138 1	307.6	482.0	0.50089						
			Base Case											
1888	351.7	1607.5	L: 128835 SHORE RD	345 129293 SHORE RD	138 2	306.5	482.0	0.49911						
			Base Case											
1889	411.2	1667.0	L: 129282 GLNWD NO	138 129587 GLNWD NO	69.0 1	92.3	118.0	0.06244						
			Base Case											
1890	431.2	1687.0	L: 128835 SHORE RD	345 129293 SHORE RD	138 1	452.4	770.0	0.73666	0.50089	307.6	523.6			
			C:128835 SHORE RD	345 129293 SHORE RD	138 2 1498									
			Open 128835 SHORE RD	345 129293 SHORE RD	138 2			0.47239	0.49911	306.5	521.7			
1891	433.2	1689.0	L: 128835 SHORE RD	345 129293 SHORE RD	138 2	451.5	770.0	0.73528	0.49911	306.5	522.7			
			C:128835 SHORE RD	345 129293 SHORE RD	138 1 1497									
			Open 128835 SHORE RD	345 129293 SHORE RD	138 1			0.47150	0.50089	307.6	524.5			
1892	500.7	1756.5	L: Interface 20 LI SUM			1430.3	1931.0	1.00000						
			Base Case											
1893	546.5	1802.2	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-186.0	-379.0	-0.35316	-0.35316	-35.1	-228.0			
			C:126299 REACBUS	345 147857 DVNPT NK	345 1 200									
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1			-0.23605	-0.00000	639.5	639.5			
1894	546.6	1802.4	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	186.0	379.0	0.35316	0.35316	35.0	228.0			
			C:126299 REACBUS	345 147857 DVNPT NK	345 1 200									
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1			0.23605	-0.00000	639.5	639.5			
1895	547.3	1803.0	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.7	-379.0	-0.35316	-0.35316	-35.1	-228.3			
			C:128830 HMP HRBR	345 147857 DVNPT NK	345 1 1475									
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1			0.23605	0.00000	-638.3	-638.3			
1896	547.4	1803.2	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	185.7	379.0	0.35316	0.35316	35.0	228.3			
			C:128830 HMP HRBR	345 147857 DVNPT NK	345 1 1475									
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1			-0.23605	0.00000	-638.3	-638.3			
1897	548.4	1804.2	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7			
			C:128824 EGC DUM	345 128825 EGC PAR	345 1 1495									
			Open 128824 EGC DUM	345 128825 EGC PAR	345 1			-0.23605	0.00000	636.6	636.6			
1898	548.4	1804.2	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7			
			C:128824 EGC DUM	345 128830 HMP HRBR	345 1 1496									
			Open 128824 EGC DUM	345 128830 HMP HRBR	345 1			0.23605	0.00000	-636.5	-636.5			
1899	548.5	1804.3	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7			
			C:SPRN-BRK-345		1892									
			Open 126298 SPRBROOK	345 126299 REACBUS	345 BY			-0.23572	-0.00000	641.0	641.0			
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1			NA						
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1			NA						
			Open 128824 EGC DUM	345 128830 HMP HRBR	345 1			NA						
			Open 128824 EGC DUM	345 128825 EGC PAR	345 1			NA						
			Open 128822 E.G.C.-1	345 128825 EGC PAR	345 1			0.00066	0.00000	-318.0	-318.0			
			Open 128823 E.G.C.-2	345 128825 EGC PAR	345 1			0.22668	0.00000	4.6	4.6			
1900	548.5	1804.3	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7			
			C:BUS:EGC_345		1736									
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1			NA						
			Open 126298 SPRBROOK	345 126299 REACBUS	345 BY			-0.23572	-0.00000	641.0	641.0			
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1			NA						
			Open 128824 EGC DUM	345 128830 HMP HRBR	345 1			NA						
			Open 128824 EGC DUM	345 128825 EGC PAR	345 1			NA						
			Open 128822 E.G.C.-1	345 128825 EGC PAR	345 1			0.00066	0.00000	-318.0	-318.0			
			Open 128823 E.G.C.-2	345 128825 EGC PAR	345 1			0.22668	0.00000	4.6	4.6			
1901	548.6	1804.3	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	185.3	379.0	0.35316	0.35316	35.0	228.7			
			C:128824 EGC DUM	345 128825 EGC PAR	345 1 1495									
			Open 128824 EGC DUM	345 128825 EGC PAR	345 1			0.23605	0.00000	636.6	636.6			
1902	548.6	1804.4	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	185.3	379.0	0.35316	0.35316	35.0	228.7			
			C:128824 EGC DUM	345 128830 HMP HRBR	345 1 1496									

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1903	548.6	1804.4	L: 129281	GLNWD GT	138	129288	ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:SPRN-BRK-345						1892						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY		0.23572	-0.00000	641.0	641.0
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA				
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA				
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA				
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA				
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1		-0.00066	0.00000	-318.0	-318.0
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1		-0.22668	0.00000	4.6	4.6
1904	548.6	1804.4	L: 129281	GLNWD GT	138	129288	ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:BUS:EGC_345						1736						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA				
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY		0.23572	-0.00000	641.0	641.0
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA				
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA				
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA				
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1		-0.00066	0.00000	-318.0	-318.0
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1		-0.22668	0.00000	4.6	4.6
1905	551.7	1807.5	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	960.3	1512.0	1.00000	1.00000	616.3	1168.0
			C:126299 REACBUS		345	147857	DVNPT NK	345	1	200					
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1		0.53791	-0.00000	639.5	639.5
1906	552.4	1808.2	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	959.6	1512.0	1.00000	1.00000	616.3	1168.6
			C:128830 HMP HRBR		345	147857	DVNPT NK	345	1	1475					
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1		-0.53791	0.00000	-638.3	-638.3
1907	553.3	1809.1	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	958.7	1512.0	1.00000	1.00000	616.3	1169.5
			C:BUS:EGC_345						1736						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA				
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY		0.53768	-0.00000	641.0	641.0
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA				
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA				
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA				
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1		-0.00047	0.00000	-318.0	-318.0
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1		-0.50315	0.00000	4.6	4.6
1908	553.3	1809.1	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	958.7	1512.0	1.00000	1.00000	616.3	1169.5
			C:SPRN-BRK-345						1892						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY		0.53768	-0.00000	641.0	641.0
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA				
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA				
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA				
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA				
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1		-0.00047	0.00000	-318.0	-318.0
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1		-0.50315	0.00000	4.6	4.6
1909	553.3	1809.1	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	958.7	1512.0	1.00000	1.00000	616.3	1169.6
			C:128824 EGC DUM		345	128825	EGC PAR	345	1	1495					
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1		0.53791	0.00000	636.6	636.6
1910	553.3	1809.1	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	958.7	1512.0	1.00000	1.00000	616.3	1169.6
			C:128824 EGC DUM		345	128830	HMP HRBR	345	1	1496					
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1		-0.53791	0.00000	-636.5	-636.5
1911	570.8	1826.6	L: 126455	JAMAICA	138	129249	L SUICSPH	138	1	265.6	428.0	0.28453	0.00000	90.2	90.2
			C:126266 DUNWODIE		345	128835	SHORE RD	345	1	1465					
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1		0.28453	1.00000	616.3	1187.1
1912	573.1	1828.9	L: 126455	JAMAICA	138	129249	L SUICSPH	138	1	264.9	428.0	0.28453	0.00000	90.2	90.2
			C:BUS:SHORE_RD_345						1735						
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1		0.28453	0.50089	307.6	594.6
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2		0.28453	0.49911	306.5	592.5

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				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00478	0.00000	2.2	2.2
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.00478	0.00000	0.0	0.0
1913	579.2	1835.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.9	770.0	0.50089	0.50089	307.6	597.7
			C:	126299 REACBUS	345	147857 DVNPT NK	345	1					200	
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.26943	-0.00000	639.5	639.5
1914	579.9	1835.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.6	770.0	0.50089	0.50089	307.6	598.0
			C:	128830 HMP HRBR	345	147857 DVNPT NK	345	1					1475	
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.26943	0.00000	-638.3	-638.3
1915	580.8	1836.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.1	770.0	0.50089	0.50089	307.6	598.5
			C:	SPRN-BRK-345									1892	
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26932	-0.00000	641.0	641.0
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1					NA	
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					NA	
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1					NA	
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1					NA	
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000	-318.0	-318.0
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25202	0.00000	4.6	4.6
1916	580.8	1836.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.1	770.0	0.50089	0.50089	307.6	598.5
			C:	BUS:EGC_345									1736	
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1					NA	
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26932	-0.00000	641.0	641.0
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					NA	
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1					NA	
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1					NA	
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000	-318.0	-318.0
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25202	0.00000	4.6	4.6
1917	580.8	1836.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.1	770.0	0.50089	0.50089	307.6	598.5
			C:	128824 EGC DUM	345	128825 EGC PAR	345	1					1495	
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.26943	0.00000	636.6	636.6
1918	580.8	1836.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	479.1	770.0	0.50089	0.50089	307.6	598.5
			C:	128824 EGC DUM	345	128830 HMP HRBR	345	1					1496	
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.26943	0.00000	-636.5	-636.5
1919	584.7	1840.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	478.2	770.0	0.49911	0.49911	306.5	598.3
			C:	126299 REACBUS	345	147857 DVNPT NK	345	1					200	
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.26848	-0.00000	639.5	639.5
1920	585.3	1841.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	477.9	770.0	0.49911	0.49911	306.5	598.6
			C:	128830 HMP HRBR	345	147857 DVNPT NK	345	1					1475	
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.26848	0.00000	-638.3	-638.3
1921	586.2	1842.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	477.4	770.0	0.49911	0.49911	306.5	599.1
			C:	BUS:EGC_345									1736	
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1					NA	
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26836	-0.00000	641.0	641.0
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					NA	
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1					NA	
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1					NA	
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000	-318.0	-318.0
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25113	0.00000	4.6	4.6
1922	586.2	1842.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	477.4	770.0	0.49911	0.49911	306.5	599.1
			C:	SPRN-BRK-345									1892	
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26836	-0.00000	641.0	641.0
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1					NA	
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					NA	
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1					NA	
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1					NA	
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000	-318.0	-318.0
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.25113	0.00000	4.6	4.6



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1923	586.3	1842.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	477.4	770.0	0.49911	0.49911	306.5	599.1	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.26848	0.00000	636.6	636.6
1924	586.3	1842.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	477.4	770.0	0.49911	0.49911	306.5	599.1	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.26848	0.00000	-636.5	-636.5
1925	587.5	1843.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-131.5	-339.0	-0.35316	-0.35316	19.4	-188.0	
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.23605	-0.00000	639.5	639.5
1926	588.3	1844.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-131.2	-339.0	-0.35316	-0.35316	19.4	-188.3	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.23605	0.00000	-638.3	-638.3
1927	589.5	1845.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-130.8	-339.0	-0.35316	-0.35316	19.4	-188.7	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.23605	0.00000	636.6	636.6
1928	589.5	1845.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-130.8	-339.0	-0.35316	-0.35316	19.4	-188.7	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.23605	0.00000	-636.5	-636.5
1929	589.5	1845.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-130.8	-339.0	-0.35316	-0.35316	19.4	-188.7	
			C:SPRN-BRK-345					1892						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23572	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22668	0.00000	4.6	4.6
1930	589.5	1845.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-130.8	-339.0	-0.35316	-0.35316	19.4	-188.7	
			C:BUS:EGC_345					1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23572	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22668	0.00000	4.6	4.6
1931	602.9	1858.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-171.1	-379.0	-0.34479	-0.34479	-23.8	-231.7	
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.23029	-0.00000	639.5	639.5
1932	603.7	1859.5	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-170.8	-379.0	-0.34479	-0.34479	-23.8	-232.0	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.23029	0.00000	-638.3	-638.3
1933	604.9	1860.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.23029	0.00000	636.6	636.6
1934	604.9	1860.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.23029	0.00000	-636.5	-636.5
1935	604.9	1860.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4	
			C:SPRN-BRK-345					1892						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.22997	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00065	0.00000	-318.0	-318.0

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			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		0.22114	0.00000	4.6	4.6	
1936	604.9	1860.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4
			C:BUS:EGC_345				1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		-0.22997	-0.00000	641.0	641.0	
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22114	0.00000	4.6	4.6
1937	614.4	1870.2	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-79.8	-379.0	-0.48701	-0.35316	-35.1	-252.0
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.34043	-0.39319	-131.3	-372.9
1938	614.5	1870.3	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	79.7	379.0	0.48701	0.35316	35.0	252.0
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			-0.34043	-0.39319	-131.3	-373.0
1939	642.5	1898.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-67.0	-379.0	-0.48558	-0.34479	-23.8	-245.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1532					
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.33877	-0.41559	-127.4	-394.4
1940	644.2	1900.0	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-25.3	-339.0	-0.48701	-0.35316	19.4	-208.1
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.34043	-0.39319	-131.3	-384.6
1941	649.0	1904.8	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-265.3	-450.0	-0.28453	0.00000	-90.0	-90.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.28453	1.00000	616.3	1265.3
1942	651.2	1907.0	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-264.7	-450.0	-0.28453	0.00000	-90.0	-90.0
			C:BUS:SHORE_RD_345				1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			-0.28453	0.50089	307.6	633.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.28453	0.49911	306.5	631.5
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.00478	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.00478	0.00000	0.0	0.0
1943	669.3	1925.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	115.4	165.0	0.07415	0.04840	107.5	139.9
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1532					
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			-0.06196	-0.41559	-127.4	-405.5
1944	690.5	1946.2	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	821.5	1512.0	1.00000	1.00000	616.3	1306.7
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.31091	0.00000	-660.3	-660.3
1945	698.8	1954.6	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-43.8	-379.0	-0.47967	-0.35316	-35.1	-281.8
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			0.36693	-0.34479	-23.8	-264.8
1946	698.9	1954.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	43.8	379.0	0.47967	0.35316	35.0	281.8
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522					
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1			-0.36693	-0.34479	-23.8	-264.8
1947	704.4	1960.2	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	101.6	165.0	0.09007	0.06244	92.3	136.3
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			-0.07028	-0.39319	-131.3	-408.3
1948	717.8	1973.6	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-125.5	-379.0	-0.35316	-0.35316	-35.1	-288.6
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.13697	0.00000	-660.3	-660.3
1949	717.9	1973.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	410.4	770.0	0.50089	0.50089	307.6	667.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.15573	0.00000	-660.3	-660.3
1950	717.9	1973.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	125.5	379.0	0.35316	0.35316	35.0	288.6
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.13697	0.00000	-660.3	-660.3
1951	722.8	1978.6	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	789.2	1512.0	1.00000	1.00000	616.3	1339.1

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				C:129343 NRTHTPT P	138	129344 NRTHTPT1	138	1	1557										
				Open 129343 NRTHTPT P		138	129344 NRTHTPT1		138					0.38704	0.00000	446.7	446.7		
1952	723.4	1979.2	L:	128835 SHORE RD	345	129293 SHORE RD	138	2		408.9	770.0	0.49911		0.49911	306.5	667.5			
				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499										
				Open 128842 NEPTCONV		345	128847 NWBRG		345					-0.15518	0.00000	-660.3	-660.3		
1953	725.4	1981.2	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-36.5	-379.0	-0.47215		-0.34479	-23.8	-274.0			
				C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1530										
				Open 129281 GLNWD GT		138	129282 GLNWD NO		138					0.36063	-0.35316	-35.1	-291.2		
1954	725.5	1981.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-36.5	-379.0	-0.47215		-0.34479	-23.8	-274.0			
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1531										
				Open 129281 GLNWD GT		138	129288 ROSLYN		138					-0.36063	0.35316	35.0	291.2		
1955	726.9	1982.7	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		785.1	1512.0	1.00000		1.00000	616.3	1343.2			
				C:128860 RULND RD	345	999860 RLND_INV	416	1	1504										
				Open 128860 RULND RD		345	999860 RLND_INV		416					-0.29716	0.00000	-568.0	-568.0		
1956	729.0	1984.8	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		10.7	-339.0	-0.47967		-0.35316	19.4	-238.0			
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522										
				Open 129265 CARLE PL		138	129283 GLNWD SO		138					0.36693	-0.34479	-23.8	-275.2		
1957	733.3	1989.1	*L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		778.7	1512.0	1.00000		1.00000	616.3	1349.5			
				C:PV_RLND_HVDC					1900										
				Open 126294 PLTVLLEY		345	998294 PV_RCT_2		416					0.00682	0.00000	-600.0	-600.0		
				Open 128860 RULND RD		345	999860 RLND_INV		416					-0.29322	0.00000	-568.0	-568.0		
1958	741.7	1997.5	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		-35.1	-297.0	-0.35316							
				Base Case															
1959	741.8	1997.6	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		35.0	297.0	0.35316							
				Base Case															
1960	750.3	2006.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	1		394.2	770.0	0.50089		0.50089	307.6	683.4			
				C:129343 NRTHTPT P	138	129344 NRTHTPT1	138	1	1557										
				Open 129343 NRTHTPT P		138	129344 NRTHTPT1		138					0.19386	0.00000	446.7	446.7		
1961	754.4	2010.2	*L:	128835 SHORE RD	345	129293 SHORE RD	138	1		392.1	770.0	0.50089		0.50089	307.6	685.5			
				C:128860 RULND RD	345	999860 RLND_INV	416	1	1504										
				Open 128860 RULND RD		345	999860 RLND_INV		416					-0.14885	0.00000	-568.0	-568.0		
1962	755.8	2011.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	2		392.8	770.0	0.49911		0.49911	306.5	683.7			
				C:129343 NRTHTPT P	138	129344 NRTHTPT1	138	1	1557										
				Open 129343 NRTHTPT P		138	129344 NRTHTPT1		138					0.19317	0.00000	446.7	446.7		
1963	758.9	2014.7	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		-71.0	-339.0	-0.35316		-0.35316	19.4	-248.6			
				C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499										
				Open 128842 NEPTCONV		345	128847 NWBRG		345					0.13697	0.00000	-660.3	-660.3		
1964	759.9	2015.7	*L:	128835 SHORE RD	345	129293 SHORE RD	138	2		390.7	770.0	0.49911		0.49911	306.5	685.8			
				C:128860 RULND RD	345	999860 RLND_INV	416	1	1504										
				Open 128860 RULND RD		345	999860 RLND_INV		416					-0.14832	0.00000	-568.0	-568.0		
1966	765.9	2021.6	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-32.9	339.0	0.48558		0.34479	-76.0	188.0			
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1532										
				Open 129282 GLNWD NO		138	129293 SHORE RD		138					-0.33877	-0.41559	-127.4	-445.7		
1968	767.1	2022.8	*L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-16.8	-379.0	-0.47215		-0.34479	-23.8	-288.3			
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1524										
				Open 129270 E.G.C.		138	129288 ROSLYN		138					0.36063	-0.35316	19.4	-251.5		
1969	772.5	2028.3	*L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		-106.2	-379.0	-0.35316		-0.35316	-35.1	-307.9			
				C:128860 RULND RD	345	999860 RLND_INV	416	1	1504										
				Open 128860 RULND RD		345	999860 RLND_INV		416					0.12521	0.00000	-568.0	-568.0		
1970	772.6	2028.4	*L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		106.1	379.0	0.35316		0.35316	35.0	307.9			
				C:128860 RULND RD	345	999860 RLND_INV	416	1	1504										
				Open 128860 RULND RD		345	999860 RLND_INV		416					-0.12521	0.00000	-568.0	-568.0		
1978	776.6	2032.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		71.2	339.0	0.34479		0.34479	-76.0	191.7			
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	200										
				Open 126299 REACBUS		345	147857 DVNPT NK		345					0.23029	-0.00000	639.5	639.5		
1983	777.4	2033.2	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		71.0	339.0	0.34479		0.34479	-76.0	192.0			

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				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1											
1984	778.6	2034.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		70.6	339.0	0.34479		0.00000	-638.3	-638.3			
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
1985	778.6	2034.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		70.6	339.0	0.34479		0.00000	636.6	636.6			
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
1986	778.6	2034.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		70.5	339.0	0.34479		0.00000	-636.5	-636.5			
				C:SPRN-BRK-345					1892										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY							0.22997	-0.00000	641.0	641.0	
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1											
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1											
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1											
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1											
1987	778.6	2034.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		70.5	339.0	0.34479		0.00000	-318.0	-318.0			
				C:BUS:EGC_345					1736										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1											
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY											
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1											
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1											
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1											
1988	786.5	2042.3	L:	129343 NRTHPT P	138	129344 NRTHPT1	138	1		547.0	675.0	0.16275		0.00000	446.7	446.7			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
1989	787.9	2043.7	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-181.3	-636.0	-0.57708		-0.41559	-127.4	-454.8			
				C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533										
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1											
1990	789.0	2044.8	L:	129343 NRTHPT P	138	129344 NRTHPT1	138	1		546.6	675.0	0.16275		0.00000	446.7	446.7			
				C:BUS:SHORE_RD_345					1735										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1											
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2											
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1											
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1											
1991	792.2	2048.0	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-23.8	-297.0	-0.34479							
				Base Case															
1992	799.7	2055.5	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		19.4	-263.0	-0.35316							
				Base Case															
1998	805.4	2061.2	*L:	129270 E.G.C.	138	129288 ROSLYN	138	1		47.3	-339.0	-0.47967		-0.35316	19.4	-265.0			
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1521										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1											
1999	807.2	2063.0	L:	129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		119.4	165.0	0.05648		0.04840	107.5	146.6			
				C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	1638										
				Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1											
2004	810.4	2066.2	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-182.4	-636.0	-0.55973		-0.39319	-131.3	-450.0			
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1532										
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1											
2005	811.1	2066.8	L:	129339 KINGS HWY	138	129355 PILGRIM	138	1		-302.5	-497.0	-0.23977							
				Base Case															
2008	815.1	2070.9	L:	129339 KINGS HWY	138	129427 HOLTS GT	138	1		301.6	497.0	0.23977							
				Base Case															
2010	818.8	2074.6	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		108.1	165.0	0.06953		0.06244	92.3	143.4			

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				C:129283	GLNWD	SO	138	129588	GLNWD	SO	69.0	1	1639									
				Open	129283	GLNWD	SO	138	129588	GLNWD	SO	69.0	1				0.14650	0.04840	107.5	147.1		
2011	820.6	2076.4	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-295.0	-636.0	-0.41559		-0.41559	-127.4	-468.4		
				C:126299	REACBUS		345	147857	DVNPT	NK	345	1	200									
				Open	126299	REACBUS		345	147857	DVNPT	NK	345	1				-0.26203	-0.00000	639.5	639.5		
2012	821.3	2077.1	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-294.7	-636.0	-0.41559		-0.41559	-127.4	-468.7		
				C:128830	HMP	HRBR	345	147857	DVNPT	NK	345	1	1475									
				Open	128830	HMP	HRBR	345	147857	DVNPT	NK	345	1				0.26203	0.00000	-638.3	-638.3		
2013	822.5	2078.3	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-294.2	-636.0	-0.41559		-0.41559	-127.4	-469.2		
				C:128824	EGC	DUM	345	128825	EGC	PAR	345	1	1495									
				Open	128824	EGC	DUM	345	128825	EGC	PAR	345	1				-0.26203	0.00000	636.6	636.6		
2014	822.5	2078.3	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-294.2	-636.0	-0.41559		-0.41559	-127.4	-469.2		
				C:128824	EGC	DUM	345	128830	HMP	HRBR	345	1	1496									
				Open	128824	EGC	DUM	345	128830	HMP	HRBR	345	1				0.26203	0.00000	-636.5	-636.5		
2015	822.5	2078.3	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-294.2	-636.0	-0.41559		-0.41559	-127.4	-469.2		
				C:BUS:EGC_345									1736									
				Open	126299	REACBUS	345	147857	DVNPT	NK	345	1										NA
				Open	126298	SPRBROOK	345	126299	REACBUS		345	BY					-0.26174	-0.00000	641.0	641.0		
				Open	128830	HMP	HRBR	345	147857	DVNPT	NK	345	1									NA
				Open	128824	EGC	DUM	345	128830	HMP	HRBR	345	1									NA
				Open	128824	EGC	DUM	345	128825	EGC	PAR	345	1									NA
				Open	128822	E.G.C.-1	345	128825	EGC	PAR	345	1					0.00057	0.00000	-318.0	-318.0		
				Open	128823	E.G.C.-2	345	128825	EGC	PAR	345	1					0.25135	0.00000	4.6	4.6		
2016	822.5	2078.3	L:	129282	GLNWD	NO	138	129293	SHORE	RD	138	1		-294.2	-636.0	-0.41559		-0.41559	-127.4	-469.2		
				C:SPRN-BRK-345									1892									
				Open	126298	SPRBROOK	345	126299	REACBUS		345	BY					-0.26174	-0.00000	641.0	641.0		
				Open	126299	REACBUS	345	147857	DVNPT	NK	345	1										NA
				Open	128830	HMP	HRBR	345	147857	DVNPT	NK	345	1									NA
				Open	128824	EGC	DUM	345	128830	HMP	HRBR	345	1									NA
				Open	128824	EGC	DUM	345	128825	EGC	PAR	345	1									NA
				Open	128822	E.G.C.-1	345	128825	EGC	PAR	345	1					0.00057	0.00000	-318.0	-318.0		
				Open	128823	E.G.C.-2	345	128825	EGC	PAR	345	1					0.25135	0.00000	4.6	4.6		
2017	825.6	2081.4	L:	129305	LCST	GRV	138	129310	NEWBERGE		138	1		-237.9	-378.0	-0.16971						
				Base Case																		
2038	852.3	2108.1	L:	129265	CARLE	PL	138	129270	E.G.C.		138	1		-63.4	339.0	0.47215		0.34479	-76.0	217.8		
				C:129281	GLNWD	GT	138	129282	GLNWD	NO	138	1	1530									
				Open	129281	GLNWD	GT	138	129282	GLNWD	NO	138	1				-0.36063	-0.35316	-35.1	-336.0		
2039	852.3	2108.1	L:	129265	CARLE	PL	138	129270	E.G.C.		138	1		-63.4	339.0	0.47215		0.34479	-76.0	217.8		
				C:129281	GLNWD	GT	138	129288	ROSLYN		138	1	1531									
				Open	129281	GLNWD	GT	138	129288	ROSLYN		138	1				0.36063	0.35316	35.0	336.0		
2047	856.9	2112.7	L:	129282	GLNWD	NO	138	129587	GLNWD	NO	69.0	1		94.3	165.0	0.08249		0.06244	92.3	145.8		
				C:129281	GLNWD	GT	138	129282	GLNWD	NO	138	1	1530									
				Open	129281	GLNWD	GT	138	129282	GLNWD	NO	138	1				-0.05678	-0.35316	-35.1	-337.7		
2048	857.0	2112.8	L:	129282	GLNWD	NO	138	129587	GLNWD	NO	69.0	1		94.3	165.0	0.08249		0.06244	92.3	145.8		
				C:129281	GLNWD	GT	138	129288	ROSLYN		138	1	1531									
				Open	129281	GLNWD	GT	138	129288	ROSLYN		138	1				0.05678	0.35316	35.0	337.7		
2085	875.5	2131.3	L:	129283	GLNWD	SO	138	129293	SHORE	RD	138	1		-291.8	-636.0	-0.39319		-0.39319	-131.3	-475.6		
				C:126299	REACBUS		345	147857	DVNPT	NK	345	1	200									
				Open	126299	REACBUS		345	147857	DVNPT	NK	345	1				-0.25083	-0.00000	639.5	639.5		
2086	876.3	2132.1	L:	129283	GLNWD	SO	138	129293	SHORE	RD	138	1		-291.5	-636.0	-0.39319		-0.39319	-131.3	-475.9		
				C:128830	HMP	HRBR	345	147857	DVNPT	NK	345	1	1475									
				Open	128830	HMP	HRBR	345	147857	DVNPT	NK	345	1				0.25083	0.00000	-638.3	-638.3		
2087	877.4	2133.2	L:	129283	GLNWD	SO	138	129293	SHORE	RD	138	1		-291.0	-636.0	-0.39319		-0.39319	-131.3	-476.3		
				C:128824	EGC	DUM	345	128825	EGC	PAR	345	1	1495									
				Open	128824	EGC	DUM	345	128825	EGC	PAR	345	1				-0.25083	0.00000	636.6	636.6		
2088	877.4	2133.2	L:	129283	GLNWD	SO	138	129293	SHORE	RD	138	1		-291.0	-636.0	-0.39319		-0.39319	-131.3	-476.3		

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				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.25083	0.00000	-636.5	-636.5				
2089	877.4	2133.2	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3				
				C:SPRN-BRK-345					1892										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.25054	-0.00000	641.0	641.0				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1											
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1											
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00057	0.00000	-318.0	-318.0				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.24061	0.00000	4.6	4.6				
2090	877.4	2133.2	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3				
				C:BUS:EGC_345					1736										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1											
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.25054	-0.00000	641.0	641.0				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1											
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1											
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1											
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00057	0.00000	-318.0	-318.0				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.24061	0.00000	4.6	4.6				
2094	880.0	2135.8	L:	129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		108.6	165.0	0.06413	0.04840	107.5	150.1				
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522										
				Open 129265 CARLE PL	138	129283 GLNWD SO	138	1											
2128	889.3	2145.1	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-127.4	-497.0	-0.41559							
				Base Case															
2181	893.9	2149.7	*L:	129265 CARLE PL	138	129270 E.G.C.	138	1		-83.0	339.0	0.47215	0.34479	-76.0	232.2				
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1524										
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1											
2202	894.4	2150.2	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		91.2	165.0	0.08249	0.06244	92.3	148.2				
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1524										
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1											
2290	895.6	2151.4	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-137.2	-636.0	-0.55698	-0.41559	-127.4	-499.6				
				C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522										
				Open 129265 CARLE PL	138	129283 GLNWD SO	138	1					0.41005	-0.34479	-23.8	-332.6			
3800	896.5	2152.3	L:	128822 E.G.C.-1	345	128825 EGC PAR	345	1	1465	-463.4	-675.0	-0.23599	0.00000	-318.0	-318.0				
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.23599	1.00000	616.3	1512.8			
3803	896.5	2152.3	L:	128822 E.G.C.-1	345	129270 E.G.C.	138	1		463.4	675.0	0.23599	0.00000	318.0	318.0				
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.23599	1.00000	616.3	1512.8			
3845	897.9	2153.7	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		108.9	165.0	0.06244	0.06244	92.3	148.4				
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	200										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1					0.02598	-0.00000	639.5	639.5			
3855	898.4	2154.2	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		108.9	165.0	0.06244	0.06244	92.3	148.4				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					-0.02598	0.00000	-638.3	-638.3			
3860	898.6	2154.4	L:	128822 E.G.C.-1	345	128825 EGC PAR	345	1		-463.0	-675.0	-0.23599	0.00000	-318.0	-318.0				
				C:BUS:SHORE_RD_345					1735										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					-0.23599	0.50089	307.6	757.6			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					-0.23599	0.49911	306.5	755.0			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.01542	0.00000	2.2	2.2			
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1					-0.01542	0.00000	0.0	0.0			
3862	898.6	2154.4	L:	128822 E.G.C.-1	345	129270 E.G.C.	138	1		462.9	675.0	0.23599	0.00000	318.0	318.0				
				C:BUS:SHORE_RD_345					1735										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.23599	0.50089	307.6	757.7			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.23599	0.49911	306.5	755.0			

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			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01542	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.01542	0.00000	0.0	0.0
3877	899.2	2155.0	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	108.9	165.0	0.06244	0.06244	92.3	148.5
			C:BUS:EGC_345				1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02602	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02468	0.00000	4.6	4.6
3878	899.2	2155.0	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	108.9	165.0	0.06244	0.06244	92.3	148.5
			C:SPRN-BRK-345				1892						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02602	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02468	0.00000	4.6	4.6
3879	899.2	2155.0	*L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	108.9	165.0	0.06244	0.06244	92.3	148.5
			C:128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.02598	0.00000	636.6	636.6
3946	907.3	2163.1	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	117.3	165.0	0.05260	0.04840	107.5	151.4
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1			0.06524	0.06437	150.1	208.5
3951	908.3	2164.1	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-462.5	-675.0	-0.23394	0.00000	-318.3	-318.3
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.23394	1.00000	616.3	1524.6
3955	909.2	2165.0	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	462.3	675.0	0.23394	0.00000	318.1	318.1
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.23394	1.00000	616.3	1525.5
3963	910.4	2166.2	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-462.0	-675.0	-0.23394	0.00000	-318.3	-318.3
			C:BUS:SHORE_RD_345				1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			-0.23394	0.50089	307.6	763.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.23394	0.49911	306.5	760.9
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01532	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01532	0.00000	0.0	0.0
3972	911.3	2167.1	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	461.8	675.0	0.23394	0.00000	318.1	318.1
			C:BUS:SHORE_RD_345				1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.23394	0.50089	307.6	764.0
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.23394	0.49911	306.5	761.3
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01532	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.01532	0.00000	0.0	0.0
4006	917.0	2172.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9
			C:126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.02054	-0.00000	639.5	639.5
4008	917.5	2173.3	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.02054	0.00000	-638.3	-638.3
4014	918.2	2174.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9
			C:BUS:EGC_345				1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02058	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						

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			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		0.00008	0.00000	-318.0	-318.0		
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-0.01947	0.00000	4.6	4.6		
4015	918.2	2174.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9	
			C:SPRN-BRK-345				1892							
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		0.02058	-0.00000	641.0	641.0		
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		0.00008	0.00000	-318.0	-318.0		
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-0.01947	0.00000	4.6	4.6		
4016	918.2	2174.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		0.02054	0.00000	636.6	636.6		
4017	918.2	2174.0	*L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.6	165.0	0.04840	0.04840	107.5	151.9	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		-0.02054	0.00000	-636.5	-636.5		
4069	921.3	2177.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-145.2	-636.0	-0.53274	-0.39319	-131.3	-493.6	
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1530						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1		0.39515	-0.35316	-35.1	-360.4		
4070	921.3	2177.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-145.2	-636.0	-0.53274	-0.39319	-131.3	-493.6	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1531						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1		-0.39515	0.35316	35.0	360.4		
7465	930.0	2185.8	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-131.3	-497.0	-0.39319				
			Base Case											
7685	961.7	2217.5	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-123.7	-636.0	-0.53274	-0.39319	-131.3	-509.5	
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1524						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1		0.39515	-0.35316	19.4	-320.2		
7719	969.1	2224.9	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-96.2	-636.0	-0.55698	-0.41559	-127.4	-530.2	
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1521						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1		-0.41005	0.34479	-76.0	258.1		
11154	978.4	2234.2	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-229.4	-636.0	-0.41559	-0.41559	-127.4	-534.0	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1		0.15449	0.00000	-660.3	-660.3		
11259	983.3	2239.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-76.0	263.0	0.34479				
			Base Case											
11343	999.9	2255.7	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	929.1	1399.0	0.46993	-0.00000	639.5	639.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.46993	1.00000	616.3	1616.1		
11348	1001.9	2257.7	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	928.2	1399.0	0.46993	-0.00000	639.5	639.5	
			C:BUS:SHORE_RD_345				1735							
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.46993	0.50089	307.6	809.4		
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.46993	0.49911	306.5	806.6		
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.03074	0.00000	2.2	2.2		
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		0.03074	0.00000	0.0	0.0		
11368	1006.2	2262.0	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	926.2	1399.0	0.46993	0.00000	636.6	636.6	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.46993	1.00000	616.3	1622.5		
11369	1006.2	2262.0	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-926.2	-1399.0	-0.46993	0.00000	-636.5	-636.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.46993	1.00000	616.3	1622.5		
11376	1008.3	2264.1	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	925.2	1399.0	0.46993	0.00000	636.6	636.6	
			C:BUS:SHORE_RD_345				1735							
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.46993	0.50089	307.6	812.6		
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.46993	0.49911	306.5	809.7		



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			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.03074	0.00000	2.2	2.2	
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		0.03074	0.00000	0.0	0.0	
11377	1008.3	2264.1	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-925.2	-1399.0	-0.46993	0.00000	-636.5	-636.5
			C:BUS:SHORE_RD_345				1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		-0.46993	0.50089	307.6	812.6	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		-0.46993	0.49911	306.5	809.7	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.03074	0.00000	2.2	2.2	
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		-0.03074	0.00000	0.0	0.0	
14889	1032.4	2288.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-388.5	-636.0	-0.23977	-0.23977	-302.5	-550.1
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1566					
			Open 129361 RULND RD	138	129362 RUL PAR	138	1		-0.46422	0.00000	185.1	185.1	
14895	1032.8	2288.5	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-388.4	-636.0	-0.23977	-0.23977	-302.5	-550.2
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1568					
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1		0.46422	0.00000	-184.9	-184.9	
14917	1034.6	2290.4	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-387.9	-636.0	-0.23977	-0.23977	-302.5	-550.6
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1505					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		0.25923	0.00000	-329.5	-329.5	
14953	1036.5	2292.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.5	636.0	0.23977	0.23977	301.6	550.1
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1566					
			Open 129361 RULND RD	138	129362 RUL PAR	138	1		0.46422	0.00000	185.1	185.1	
14961	1036.8	2292.6	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.4	636.0	0.23977	0.23977	301.6	550.2
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1568					
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1		-0.46422	0.00000	-184.9	-184.9	
14971	1038.7	2294.4	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.0	636.0	0.23977	0.23977	301.6	550.6
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1505					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		-0.25923	0.00000	-329.5	-329.5	
14976	1039.1	2294.9	L: 129270 E.G.C.	138	129310 NEWBERGE	138	1	42.0	235.0	0.18572			
			Base Case										
15066	1083.7	2339.5	L: 129271 E.G.C.-2	138	129310 NEWBERGE	138	2	42.1	235.0	0.17801			
			Base Case										
15113	1123.4	2379.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-366.6	-636.0	-0.23977	-0.23977	-302.5	-571.9
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1550					
			Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1		0.38867	0.00000	-164.9	-164.9	
15114	1123.4	2379.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-366.6	-636.0	-0.23977	-0.23977	-302.5	-571.9
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1562					
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1		-0.38867	0.00000	164.9	164.9	
15127	1127.5	2383.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	365.7	636.0	0.23977	0.23977	301.6	571.9
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1550					
			Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1		-0.38867	0.00000	-164.9	-164.9	
15128	1127.5	2383.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	365.7	636.0	0.23977	0.23977	301.6	571.9
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1562					
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1		0.38867	0.00000	164.9	164.9	
16875	1165.1	2420.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	78.4	118.0	0.03399			
			Base Case										
16876	1165.1	2420.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	78.4	118.0	0.03399			
			Base Case										
20420	1204.3	2460.1	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	122.2	165.0	0.03551	0.02955	99.0	134.6
			C:129333 GRENLAWN	138	129677 GRENLAWN	69.0	1	1645					
			Open 129333 GRENLAWN	138	129677 GRENLAWN	69.0	1		0.26844	0.02219	86.7	113.4	
20589	1212.7	2468.5	L: 129355 PILGRIM	138	129686 PILGRM	69.0	1	288.6	335.0	0.03827	0.02601	196.2	227.7
			C:129355 PILGRIM	138	129686 PILGRM	69.0	2	1647					
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	2		0.49967	0.02455	185.0	214.7	
20599	1215.0	2470.8	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-120.1	-211.0	-0.07485			
			Base Case										
20717	1223.2	2479.0	L: Interface 55 I-to-K					1687.8	2911.0	1.00000	1.00000	1255.8	2479.0
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499					



I-to-K

			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1			0.03074	0.00000	0.0	0.0	
22508	1278.2	2534.0	L:	129339	KINGS HWY	138	129427	HOLTS GT	138	1	346.5	636.0	0.22652	0.23977	301.6	608.0	
			C:	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1626						
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1				-0.24893	0.05320	-180.4	-112.4
24103	1283.9	2539.7	L:	129339	KINGS HWY	138	129355	PILGRIM	138	1	-310.8	-636.0	-0.25325	-0.23977	-302.5	-610.4	
			C:	126266	DUNWODIE	345	128835	SHORE RD	345	1	1465						
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1				-0.01348	1.00000	616.3	1900.2
24129	1284.0	2539.8	*L:	129339	KINGS HWY	138	129355	PILGRIM	138	1	-310.8	-636.0	-0.25325	-0.23977	-302.5	-610.4	
			C:	BUS:SHORE_RD_345							1735						
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1				-0.01348	0.50089	307.6	950.7
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2				-0.01348	0.49911	306.5	947.4
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1				0.00170	0.00000	2.2	2.2
			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1				0.00170	0.00000	0.0	0.0
24238	1287.8	2543.6	L:	129339	KINGS HWY	138	129427	HOLTS GT	138	1	309.9	636.0	0.25325	0.23977	301.6	610.3	
			C:	126266	DUNWODIE	345	128835	SHORE RD	345	1	1465						
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1				0.01348	1.00000	616.3	1904.1
24239	1287.9	2543.7	*L:	129339	KINGS HWY	138	129427	HOLTS GT	138	1	309.8	636.0	0.25325	0.23977	301.6	610.4	
			C:	BUS:SHORE_RD_345							1735						
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1				0.01348	0.50089	307.6	952.7
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2				0.01348	0.49911	306.5	949.3
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1				-0.00170	0.00000	2.2	2.2
			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1				-0.00170	0.00000	0.0	0.0
24296	1298.1	2553.9	L:	Interface	55	I-to-K					1612.9	2911.0	1.00000	1.00000	1255.8	2553.9	
			C:	129343	NRTHPT P	138	129344	NRTHPT1	138	1	1557						
			Open	129343	NRTHPT P	138	129344	NRTHPT1	138	1				0.79948	0.00000	446.7	446.7
24297	1298.1	2553.9	L:	Interface	56	K-to-I					-1612.9	-2911.0	-1.00000	-1.00000	-1255.8	-2553.9	
			C:	129343	NRTHPT P	138	129344	NRTHPT1	138	1	1557						
			Open	129343	NRTHPT P	138	129344	NRTHPT1	138	1				-0.79948	0.00000	446.7	446.7
24308	1303.4	2559.2	L:	Interface	55	I-to-K					1607.6	2911.0	1.00000	1.00000	1255.8	2559.2	
			C:	128860	RULND RD	345	999860	RLND_INV	416	1	1504						
			Open	128860	RULND RD	345	999860	RLND_INV	416	1				-0.61937	0.00000	-568.0	-568.0
24309	1303.4	2559.2	L:	Interface	56	K-to-I					-1607.6	-2911.0	-1.00000	-1.00000	-1255.8	-2559.2	
			C:	128860	RULND RD	345	999860	RLND_INV	416	1	1504						
			Open	128860	RULND RD	345	999860	RLND_INV	416	1				0.61937	0.00000	-568.0	-568.0
24327	1313.8	2569.6	L:	Interface	56	K-to-I					-1597.2	-2911.0	-1.00000	-1.00000	-1255.8	-2569.6	
			C:	PV_RLRD_HVDC							1900						
			Open	126294	PLTVLLEY	345	998294	PV_RCT_2	416	1				-0.00917	0.00000	-600.0	-600.0
			Open	128860	RULND RD	345	999860	RLND_INV	416	1				0.61078	0.00000	-568.0	-568.0
24328	1313.8	2569.6	L:	Interface	55	I-to-K					1597.2	2911.0	1.00000	1.00000	1255.8	2569.6	
			C:	PV_RLRD_HVDC							1900						
			Open	126294	PLTVLLEY	345	998294	PV_RCT_2	416	1				0.00917	0.00000	-600.0	-600.0
			Open	128860	RULND RD	345	999860	RLND_INV	416	1				-0.61078	0.00000	-568.0	-568.0
24425	1380.1	2635.9	L:	126266	DUNWODIE	345	126292	PL VILLE	345	1	-809.8	-1811.0	-0.72544				
			Base Case														
24442	1381.6	2637.4	L:	129248	L SUCS	138	129543	LKE SCSS	69.0	1	150.1	239.0	0.06437				
			Base Case														
25014	1459.2	2715.0	L:	Interface	55	I-to-K					1451.8	2911.0	1.00000	1.00000	1255.8	2715.0	
			C:	128880	SHMHVDCL	192	129459	SHOREHAM	138	1	1505						
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1				-0.59497	0.00000	-329.5	-329.5
25015	1459.2	2715.0	L:	Interface	56	K-to-I					-1451.8	-2911.0	-1.00000	-1.00000	-1255.8	-2715.0	
			C:	128880	SHMHVDCL	192	129459	SHOREHAM	138	1	1505						
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1				0.59497	0.00000	-329.5	-329.5
25016	1526.3	2782.1	L:	Interface	56	K-to-I					-1384.7	-2911.0	-1.00000	-1.00000	-1255.8	-2782.1	
			C:	SIN:250							1791						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2				0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3	24.0	1284.7	MW	dispatch								

I-to-K

25017	1526.3	2782.1	L: Interface	55	I-to-K			1384.7	2911.0	1.00000	1.00000	1255.8	2782.1		
			C:SIN:250												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
25018	1528.8	2784.6	L: Interface	56	K-to-I			-1382.2	-2911.0	-1.00000	-1.00000	-1255.8	-2784.6		
			C:GEN:MLS3&OMS												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2	0.00002	0.00000	-0.0	-0.0
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
25019	1528.8	2784.6	L: Interface	55	I-to-K			1382.2	2911.0	1.00000	1.00000	1255.8	2784.6		
			C:GEN:MLS3&OMS												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
25020	1528.8	2784.6	L: Interface	56	K-to-I			-1382.2	-2911.0	-1.00000	-1.00000	-1255.8	-2784.6		
			C:GEN:MILLST 3												
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
25021	1528.8	2784.6	L: Interface	55	I-to-K			1382.2	2911.0	1.00000	1.00000	1255.8	2784.6		
			C:GEN:MILLST 3												
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
25022	1551.9	2807.7	L: Interface	56	K-to-I			-1421.7	-2911.0	-0.95968	-1.00000	-1255.8	-2807.7		
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1619						
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1	0.59357	0.06792	-279.4	-174.0	
25023	1551.9	2807.7	L: Interface	55	I-to-K			1421.7	2911.0	0.95968	1.00000	1255.8	2807.7		
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1619						
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1	-0.59357	0.06792	-279.4	-174.0	
25024	1557.9	2813.7	*L: Interface	55	I-to-K			1412.3	2911.0	0.96195	1.00000	1255.8	2813.7		
			C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1617						
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	-0.56015	0.06792	-279.5	-173.6	
25025	1557.9	2813.7	*L: Interface	56	K-to-I			-1412.3	-2911.0	-0.96195	-1.00000	-1255.8	-2813.7		
			C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1617						
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	0.56015	0.06792	-279.5	-173.6	
28196	1685.4	2941.2	L: Interface	15	I-to-K			1686.6	3372.0	1.00000	1.00000	1254.6	2940.0		
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1499						
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	-0.65425	0.00000	-660.3	-660.3	
28255	1760.3	3016.1	L: Interface	15	I-to-K			1611.7	3372.0	1.00000	1.00000	1254.6	3014.9		
			C:129343 NRTHTPT P	138	129344	NRTHTPT1	138	1	1557						
			Open	129343	NRTHTPT P	138	129344	NRTHTPT1	138	1	0.79948	0.00000	446.7	446.7	
28264	1765.6	3021.4	L: Interface	15	I-to-K			1606.4	3372.0	1.00000	1.00000	1254.6	3020.2		
			C:128860 RULND RD	345	999860	RLND_INV	416	1	1504						
			Open	128860	RULND RD	345	999860	RLND_INV	416	1	-0.61937	0.00000	-568.0	-568.0	
28265	1776.0	3031.8	L: Interface	15	I-to-K			1596.0	3372.0	1.00000	1.00000	1254.6	3030.6		
			C:PV_RLRD_HVDC												
			Open	126294	PLTVLLEY	345	998294	PV_RCT_2	416	1	0.00917	0.00000	-600.0	-600.0	
			Open	128860	RULND RD	345	999860	RLND_INV	416	1	-0.61078	0.00000	-568.0	-568.0	
28266	1921.4	3177.2	L: Interface	15	I-to-K			1450.6	3372.0	1.00000	1.00000	1254.6	3176.0		
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1505						
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1	-0.59497	0.00000	-329.5	-329.5	
28273	1988.5	3244.3	L: Interface	15	I-to-K			1383.5	3372.0	1.00000	1.00000	1254.6	3243.1		
			C:SIN:250												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
28274	1991.0	3246.8	L: Interface	15	I-to-K			1381.0	3372.0	1.00000	1.00000	1254.6	3245.6		
			C:GEN:MILLST 3												
			Remove unit	3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch				
28275	1991.0	3246.8	L: Interface	15	I-to-K			1381.0	3372.0	1.00000	1.00000	1254.6	3245.6		
			C:GEN:MLS3&OMS												
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0



I-to-K

					C:129418 CAITHNESS1	138	129461	SILLS RD2	138	1	1577								
					Open 129418 CAITHNESS1	138	129461	SILLS RD2	138	1									
29922	2466.0	3721.8	L:	Interface	78	LIPA	Export												
					C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1617								
					Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1									
29924	2466.1	3721.9	L:	Interface	78	LIPA	Export												
					C:129026 NRTPTG3	22.0	129342	NRTHPT2	138	1	1619								
					Open 129026 NRTPTG3	22.0	129342	NRTHPT2	138	1									
29925	2468.0	3723.8	L:	Interface	78	LIPA	Export												
					C:129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	1618								
					Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1									
29926	2468.1	3723.9	L:	Interface	78	LIPA	Export												
					C:129027 NRTPTG4	22.0	129342	NRTHPT2	138	1	1620								
					Open 129027 NRTPTG4	22.0	129342	NRTHPT2	138	1									
31548	2531.6	3787.4	L:	Interface	78	LIPA	Export												
					C:129092 PTJFEFG3	20.0	129448	PT JEFF1	138	1	1625								
					Open 129092 PTJFEFG3	20.0	129448	PT JEFF1	138	1									
31549	2531.7	3787.5	L:	Interface	78	LIPA	Export												
					C:128900 BARETG1	20.0	129202	BARRETT1	138	1	1611								
					Open 128900 BARETG1	20.0	129202	BARRETT1	138	1									
31550	2532.3	3788.1	L:	Interface	78	LIPA	Export												
					C:129093 PTJFEFG4	20.0	129449	PT JEFF2	138	1	1626								
					Open 129093 PTJFEFG4	20.0	129449	PT JEFF2	138	1									
31551	2532.4	3788.2	*L:	Interface	78	LIPA	Export												
					C:128901 BARETG2	20.0	129203	BARRETT2	138	1	1612								
					Open 128901 BARETG2	20.0	129203	BARRETT2	138	1									
31552	2558.0	3813.8	L:	Interface	20	LI	SUM												
					C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1505								
					Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1									
33181	2622.3	3878.1	L:	Interface	20	LI	SUM												
					C:SIN:250						1791								
					Open 100508 SANDB115	115	100509	SB RCTOR	115	2									
					Remove unit 3 from bus 103563 MILL#3		24.0	1284.7	MW	dispatch									
33182	2627.4	3883.2	L:	Interface	20	LI	SUM												
					C:GEN:MLS3&OMS						1687								
					Open 100508 SANDB115	115	100509	SB RCTOR	115	2									
					Remove unit 3 from bus 103563 MILL#3		24.0	1284.7	MW	dispatch									
33183	2627.4	3883.2	L:	Interface	20	LI	SUM												
					C:GEN:MILLST 3						1685								
					Remove unit 3 from bus 103563 MILL#3		24.0	1284.7	MW	dispatch									
33184	2675.8	3931.6	L:	Interface	20	LI	SUM												
					C:GEN:SEAB&OMS						1688								
					Open 100508 SANDB115	115	100509	SB RCTOR	115	2									
					Remove unit 1 from bus 102869 SBRK G1		25.0	1327.0	MW	dispatch									
33185	2675.8	3931.6	*L:	Interface	20	LI	SUM												
					C:GEN:SEABROOK						1686								
					Remove unit 1 from bus 102869 SBRK G1		25.0	1327.0	MW	dispatch									

# LIPA Import

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, SEP 08 2011 17:10  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 GEN SNR 3, ICAP STUDY, BTP INCLUDED  
 Case.File ICAP-Rev6-LIPA-Import-y50-653mw.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 32896  
 First violation - -662.8 MW.

Study transfer. From ABCDEFG\_EXP To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 32896 violations

Interface-1 Interface 19 LIPA IMPORT Init.Flow= 3438.82 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	___Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF	=Base Case Flow=	Init	Final	
1	-662.8	2776.0	L: Interface 19 LIPA IMPORT Base Case		3438.8	2776.0	1.00000						
2	-156.0	3282.8	L: Interface 78 LIPA Export Base Case		-2872.0	-2716.0	-1.00000						
3	20.9	3459.7	L: 126452 HUDAVE E 138 126455 JAMAICA 138 1 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1		403.7	406.0	0.11091		0.00000	335.3	335.3		
4	20.9	3459.7	L: 126452 HUDAVE E 138 126455 JAMAICA 138 2 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1		403.7	406.0	0.11091	0.11091	1.00000	616.3	637.1		
5	23.3	3462.2	L: 126452 HUDAVE E 138 126455 JAMAICA 138 1 C:BUS:SHORE_RD_345 1735 Open 128835 SHORE RD 345 129293 SHORE RD 138 1 Open 128835 SHORE RD 345 129293 SHORE RD 138 2 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1 Open 150 DUNWD SW 345 126266 DUNWODIE 345 1		403.4	406.0	0.11091	0.11091	1.00000	0.50089	307.6	319.3	
6	23.3	3462.2	L: 126452 HUDAVE E 138 126455 JAMAICA 138 2 C:BUS:SHORE_RD_345 1735 Open 128835 SHORE RD 345 129293 SHORE RD 138 1 Open 128835 SHORE RD 345 129293 SHORE RD 138 2 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1 Open 150 DUNWD SW 345 126266 DUNWODIE 345 1		403.4	406.0	0.11091	0.11091	1.00000	0.49911	306.5	318.1	
7	36.7	3475.5	L: 126266 DUNWODIE 345 128835 SHORE RD 345 1 Base Case		616.3	653.0	1.00000						
8	105.2	3544.0	L: Interface 56 K-to-I Base Case		-1255.8	-1361.0	-1.00000						
9	105.2	3544.0	L: Interface 55 I-to-K Base Case		1255.8	1361.0	1.00000						
10	137.0	3575.8	L: 126280 FARRAGUT TX9 345 126437 FGT_X9 138 1 C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465 Open 126266 DUNWODIE 345 128835 SHORE RD 345 1		205.9	216.0	0.07398	0.07398	1.00000	-0.00000	160.3	160.3	
11	139.5	3578.3	L: 126280 FARRAGUT TX9 345 126437 FGT_X9 138 1 C:BUS:SHORE_RD_345 1735		205.7	216.0	0.07398		-0.00000	160.3	160.3		

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			Open 128835 SHORE RD	345 129293 SHORE RD	138 1				0.07398	0.50089	307.6	377.4
			Open 128835 SHORE RD	345 129293 SHORE RD	138 2				0.07398	0.49911	306.5	376.1
			Open 126266 DUNWODIE	345 128835 SHORE RD	345 1				-0.00827	0.00000	2.2	2.2
			Open 150 DUNWD SW	345 126266 DUNWODIE	345 1				-0.00827	0.00000	0.0	0.0
12	156.5	3595.3	L: 126277 FARRAGUT	345 126451 FGT_X8	138 1	204.4	216.0	0.07396		-0.00000	158.8	158.8
			C:126266 DUNWODIE	345 128835 SHORE RD	345 1 1465							
			Open 126266 DUNWODIE	345 128835 SHORE RD	345 1				0.07396	1.00000	616.3	772.8
13	157.3	3596.1	L: 126277 FARRAGUT	345 126436 FGT_X10	138 1	204.4	216.0	0.07389		-0.00000	158.8	158.8
			C:126266 DUNWODIE	345 128835 SHORE RD	345 1 1465							
			Open 126266 DUNWODIE	345 128835 SHORE RD	345 1				0.07389	1.00000	616.3	773.5
14	159.0	3597.8	L: 126277 FARRAGUT	345 126451 FGT_X8	138 1	204.2	216.0	0.07396		-0.00000	158.8	158.8
			C:BUS:SHORE_RD_345		1735							
			Open 128835 SHORE RD	345 129293 SHORE RD	138 1				0.07396	0.50089	307.6	387.2
			Open 128835 SHORE RD	345 129293 SHORE RD	138 2				0.07396	0.49911	306.5	385.8
			Open 126266 DUNWODIE	345 128835 SHORE RD	345 1				-0.00827	0.00000	2.2	2.2
			Open 150 DUNWD SW	345 126266 DUNWODIE	345 1				-0.00827	0.00000	0.0	0.0
15	159.7	3598.6	L: 126277 FARRAGUT	345 126436 FGT_X10	138 1	204.2	216.0	0.07389		-0.00000	158.8	158.8
			C:BUS:SHORE_RD_345		1735							
			Open 128835 SHORE RD	345 129293 SHORE RD	138 1				0.07389	0.50089	307.6	387.6
			Open 128835 SHORE RD	345 129293 SHORE RD	138 2				0.07389	0.49911	306.5	386.2
			Open 126266 DUNWODIE	345 128835 SHORE RD	345 1				-0.00826	0.00000	2.2	2.2
			Open 150 DUNWD SW	345 126266 DUNWODIE	345 1				-0.00826	0.00000	0.0	0.0
16	166.4	3605.2	L: Interface 15 I-to-K			1254.6	1421.0	1.00000				
			Base Case									
17	217.3	3656.2	L: 129283 GLNWD SO	138 129588 GLNWD SO	69.0 1	107.5	118.0	0.04840				
			Base Case									
18	348.2	3787.1	L: 128835 SHORE RD	345 129293 SHORE RD	138 1	307.6	482.0	0.50089				
			Base Case									
19	351.7	3790.5	L: 128835 SHORE RD	345 129293 SHORE RD	138 2	306.5	482.0	0.49911				
			Base Case									
20	411.2	3850.1	L: 129282 GLNWD NO	138 129587 GLNWD NO	69.0 1	92.3	118.0	0.06244				
			Base Case									
21	431.2	3870.0	L: 128835 SHORE RD	345 129293 SHORE RD	138 1	452.4	770.0	0.73666		0.50089	307.6	523.6
			C:128835 SHORE RD	345 129293 SHORE RD	138 2 1498							
			Open 128835 SHORE RD	345 129293 SHORE RD	138 2				0.47239	0.49911	306.5	521.7
22	433.2	3872.0	L: 128835 SHORE RD	345 129293 SHORE RD	138 2	451.5	770.0	0.73528		0.49911	306.5	522.7
			C:128835 SHORE RD	345 129293 SHORE RD	138 1 1497							
			Open 128835 SHORE RD	345 129293 SHORE RD	138 1				0.47150	0.50089	307.6	524.5
23	500.7	3939.5	L: Interface 20 LI SUM			1430.3	1931.0	1.00000				
			Base Case									
24	546.5	3985.3	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-186.0	-379.0	-0.35316		-0.35316	-35.1	-228.0
			C:126299 REACBUS	345 147857 DVNPT NK	345 1 200							
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1				-0.23605	-0.00000	639.5	639.5
25	546.6	3985.4	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	186.0	379.0	0.35316		0.35316	35.0	228.0
			C:126299 REACBUS	345 147857 DVNPT NK	345 1 200							
			Open 126299 REACBUS	345 147857 DVNPT NK	345 1				0.23605	-0.00000	639.5	639.5
26	547.3	3986.1	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.7	-379.0	-0.35316		-0.35316	-35.1	-228.3
			C:128830 HMP HRBR	345 147857 DVNPT NK	345 1 1475							
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1				0.23605	0.00000	-638.3	-638.3
27	547.4	3986.2	L: 129281 GLNWD GT	138 129288 ROSLYN	138 1	185.7	379.0	0.35316		0.35316	35.0	228.3
			C:128830 HMP HRBR	345 147857 DVNPT NK	345 1 1475							
			Open 128830 HMP HRBR	345 147857 DVNPT NK	345 1				-0.23605	0.00000	-638.3	-638.3
28	548.4	3987.3	L: 129281 GLNWD GT	138 129282 GLNWD NO	138 1	-185.3	-379.0	-0.35316		-0.35316	-35.1	-228.7
			C:128824 EGC DUM	345 128825 EGC PAR	345 1 1495							
			Open 128824 EGC DUM	345 128825 EGC PAR	345 1				-0.23605	-0.00000	636.6	636.6



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29	548.4	3987.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496					
			Open 128824 EGC DUM		345 128830 HMP HRBR	345	1			0.23605	0.00000	-636.5	-636.5
30	548.5	3987.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7
			C:BUS:EGC_345					1736					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23572	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22668	0.00000	4.6	4.6
31	548.5	3987.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-185.3	-379.0	-0.35316	-0.35316	-35.1	-228.7
			C:SPRN-BRK-345					1892					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23572	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22668	0.00000	4.6	4.6
32	548.6	3987.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495					
			Open 128824 EGC DUM		345 128825 EGC PAR	345	1			0.23605	-0.00000	636.6	636.6
33	548.6	3987.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496					
			Open 128824 EGC DUM		345 128830 HMP HRBR	345	1			-0.23605	0.00000	-636.5	-636.5
34	548.6	3987.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:SPRN-BRK-345					1892					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23572	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22668	0.00000	4.6	4.6
35	548.6	3987.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	185.3	379.0	0.35316	0.35316	35.0	228.7
			C:BUS:EGC_345					1736					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23572	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22668	0.00000	4.6	4.6
36	551.7	3990.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	960.3	1512.0	1.00000	1.00000	616.3	1168.0
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200					
			Open 126299 REACBUS		345 147857 DVNPT NK	345	1			0.53791	-0.00000	639.5	639.5
37	552.4	3991.2	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	959.6	1512.0	1.00000	1.00000	616.3	1168.6
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475					
			Open 128830 HMP HRBR		345 147857 DVNPT NK	345	1			-0.53791	0.00000	-638.3	-638.3
38	553.3	3992.1	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	958.7	1512.0	1.00000	1.00000	616.3	1169.5
			C:BUS:EGC_345					1736					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.53768	-0.00000	641.0	641.0

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			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA								
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA								
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA								
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00047	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.50315	0.00000	4.6	4.6	
39	553.3	3992.1	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		958.7	1512.0	1.00000		1.00000	616.3	1169.5	
			C:SPRN-BRK-345														1892
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					0.53768	-0.00000	641.0	641.0	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA								
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA								
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA								
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA								
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00047	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.50315	0.00000	4.6	4.6	
40	553.3	3992.1	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		958.7	1512.0	1.00000		1.00000	616.3	1169.6	
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1495								
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1					0.53791	-0.00000	636.6	636.6	
41	553.3	3992.1	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		958.7	1512.0	1.00000		1.00000	616.3	1169.6	
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1496								
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					-0.53791	0.00000	-636.5	-636.5	
42	570.8	4009.6	L: 126455 JAMAICA	138	129249	L SUCSPH	138	1		265.6	428.0	0.28453		0.00000	90.2	90.2	
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1465								
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					0.28453	1.00000	616.3	1187.1	
43	573.1	4011.9	L: 126455 JAMAICA	138	129249	L SUCSPH	138	1		264.9	428.0	0.28453		0.00000	90.2	90.2	
			C:BUS:SHORE_RD_345														1735
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1					0.28453	0.50089	307.6	594.6	
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2					0.28453	0.49911	306.5	592.5	
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1					-0.00478	0.00000	2.2	2.2	
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1					-0.00478	0.00000	0.0	0.0	
44	579.2	4018.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		479.9	770.0	0.50089		0.50089	307.6	597.7	
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	200								
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					0.26943	-0.00000	639.5	639.5	
45	579.9	4018.7	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		479.6	770.0	0.50089		0.50089	307.6	598.0	
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1475								
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					-0.26943	0.00000	-638.3	-638.3	
46	580.8	4019.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		479.1	770.0	0.50089		0.50089	307.6	598.5	
			C:SPRN-BRK-345														1892
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					0.26932	-0.00000	641.0	641.0	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA								
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA								
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA								
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA								
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00023	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.25202	0.00000	4.6	4.6	
47	580.8	4019.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		479.1	770.0	0.50089		0.50089	307.6	598.5	
			C:BUS:EGC_345														1736
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA								
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY					0.26932	-0.00000	641.0	641.0	
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA								
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA								
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA								
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1					-0.00023	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1					-0.25202	0.00000	4.6	4.6	
48	580.8	4019.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		479.1	770.0	0.50089		0.50089	307.6	598.5	
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1495								



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61	589.5	4028.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-130.8	-339.0	-0.35316	-0.35316	19.4	-188.7
			C:BUS:EGC_345					1736						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.23572	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00066	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22668	0.00000	4.6	4.6
62	602.9	4041.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-171.1	-379.0	-0.34479	-0.34479	-23.8	-231.7
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	200					
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1			-0.23029	-0.00000	639.5	639.5
63	603.7	4042.5	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-170.8	-379.0	-0.34479	-0.34479	-23.8	-232.0
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1475					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			0.23029	0.00000	-638.3	-638.3
64	604.9	4043.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1495					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			-0.23029	-0.00000	636.6	636.6
65	604.9	4043.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1496					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			0.23029	0.00000	-636.5	-636.5
66	604.9	4043.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4
			C:BUS:EGC_345					1736						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.22997	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22114	0.00000	4.6	4.6
67	604.9	4043.7	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-170.4	-379.0	-0.34479	-0.34479	-23.8	-232.4
			C:SPRN-BRK-345					1892						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.22997	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22114	0.00000	4.6	4.6
68	614.4	4053.2	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-79.8	-379.0	-0.48701	-0.35316	-35.1	-252.0
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.34043	-0.39319	-131.3	-372.9
69	614.5	4053.3	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	79.7	379.0	0.48701	0.35316	35.0	252.0
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			-0.34043	-0.39319	-131.3	-373.0
70	642.5	4081.3	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-67.0	-379.0	-0.48558	-0.34479	-23.8	-245.4
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1532					
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1			0.33877	-0.41559	-127.4	-394.4
71	644.2	4083.0	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-25.3	-339.0	-0.48701	-0.35316	19.4	-208.1
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.34043	-0.39319	-131.3	-384.6
72	649.0	4087.8	L: 129248 L SUCS	138	129249	L SUCSPH	138	1	-265.3	-450.0	-0.28453	0.00000	-90.0	-90.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.28453	1.00000	616.3	1265.3
73	651.2	4090.1	L: 129248 L SUCS	138	129249	L SUCSPH	138	1	-264.7	-450.0	-0.28453	0.00000	-90.0	-90.0

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		C:BUS:SHORE_RD_345						1735								
		Open	128835	SHORE RD	345	129293	SHORE RD	138	1	-0.28453	0.50089	307.6	633.8			
		Open	128835	SHORE RD	345	129293	SHORE RD	138	2	-0.28453	0.49911	306.5	631.5			
		Open	126266	DUNWODIE	345	128835	SHORE RD	345	1	0.00478	0.00000	2.2	2.2			
		Open	150	DUNWD SW	345	126266	DUNWODIE	345	1	0.00478	0.00000	0.0	0.0			
74	669.3	4108.1	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	115.4	165.0	0.07415	0.04840	107.5	139.9
			C:	129282	GLNWD NO	138	129293	SHORE RD	138	1	1532					
			Open	129282	GLNWD NO	138	129293	SHORE RD	138	1	-0.06196	-0.41559	-127.4	-405.5		
75	690.5	4129.3	L:	126266	DUNWODIE	345	128835	SHORE RD	345	1	821.5	1512.0	1.00000	1.00000	616.3	1306.7
			C:	128842	NEPTCONV	345	128847	NWBRG	345	1	1499					
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	-0.31091	0.00000	-660.3	-660.3		
76	698.8	4137.6	L:	129281	GLNWD GT	138	129282	GLNWD NO	138	1	-43.8	-379.0	-0.47967	-0.35316	-35.1	-281.8
			C:	129265	CARLE PL	138	129283	GLNWD SO	138	1	1522					
			Open	129265	CARLE PL	138	129283	GLNWD SO	138	1	0.36693	-0.34479	-23.8	-264.8		
77	698.9	4137.7	L:	129281	GLNWD GT	138	129288	ROSLYN	138	1	43.8	379.0	0.47967	0.35316	35.0	281.8
			C:	129265	CARLE PL	138	129283	GLNWD SO	138	1	1522					
			Open	129265	CARLE PL	138	129283	GLNWD SO	138	1	-0.36693	-0.34479	-23.8	-264.8		
78	704.4	4143.2	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	101.6	165.0	0.09007	0.06244	92.3	136.3
			C:	129283	GLNWD SO	138	129293	SHORE RD	138	1	1533					
			Open	129283	GLNWD SO	138	129293	SHORE RD	138	1	-0.07028	-0.39319	-131.3	-408.3		
79	717.8	4156.7	L:	129281	GLNWD GT	138	129282	GLNWD NO	138	1	-125.5	-379.0	-0.35316	-0.35316	-35.1	-288.6
			C:	128842	NEPTCONV	345	128847	NWBRG	345	1	1499					
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	0.13697	0.00000	-660.3	-660.3		
80	717.9	4156.8	L:	128835	SHORE RD	345	129293	SHORE RD	138	1	410.4	770.0	0.50089	0.50089	307.6	667.2
			C:	128842	NEPTCONV	345	128847	NWBRG	345	1	1499					
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	-0.15573	0.00000	-660.3	-660.3		
81	717.9	4156.8	L:	129281	GLNWD GT	138	129288	ROSLYN	138	1	125.5	379.0	0.35316	0.35316	35.0	288.6
			C:	128842	NEPTCONV	345	128847	NWBRG	345	1	1499					
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	-0.13697	0.00000	-660.3	-660.3		
82	722.8	4161.7	L:	126266	DUNWODIE	345	128835	SHORE RD	345	1	789.2	1512.0	1.00000	1.00000	616.3	1339.1
			C:	129343	NRTHPT P	138	129344	NRTHPT1	138	1	1557					
			Open	129343	NRTHPT P	138	129344	NRTHPT1	138	1	0.38704	0.00000	446.7	446.7		
83	723.4	4162.2	L:	128835	SHORE RD	345	129293	SHORE RD	138	2	408.9	770.0	0.49911	0.49911	306.5	667.5
			C:	128842	NEPTCONV	345	128847	NWBRG	345	1	1499					
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1	-0.15518	0.00000	-660.3	-660.3		
84	725.4	4164.2	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1	-36.5	-379.0	-0.47215	-0.34479	-23.8	-274.0
			C:	129281	GLNWD GT	138	129282	GLNWD NO	138	1	1530					
			Open	129281	GLNWD GT	138	129282	GLNWD NO	138	1	0.36063	-0.35316	-35.1	-291.2		
85	725.5	4164.3	L:	129265	CARLE PL	138	129283	GLNWD SO	138	1	-36.5	-379.0	-0.47215	-0.34479	-23.8	-274.0
			C:	129281	GLNWD GT	138	129288	ROSLYN	138	1	1531					
			Open	129281	GLNWD GT	138	129288	ROSLYN	138	1	-0.36063	0.35316	35.0	291.2		
86	726.9	4165.8	L:	126266	DUNWODIE	345	128835	SHORE RD	345	1	785.1	1512.0	1.00000	1.00000	616.3	1343.2
			C:	128860	RULND RD	345	999860	RLND_INV	416	1	1504					
			Open	128860	RULND RD	345	999860	RLND_INV	416	1	-0.29716	0.00000	-568.0	-568.0		
87	729.0	4167.8	L:	129270	E.G.C.	138	129288	ROSLYN	138	1	10.7	-339.0	-0.47967	-0.35316	19.4	-238.0
			C:	129265	CARLE PL	138	129283	GLNWD SO	138	1	1522					
			Open	129265	CARLE PL	138	129283	GLNWD SO	138	1	0.36693	-0.34479	-23.8	-275.2		
88	733.3	4172.1	*L:	126266	DUNWODIE	345	128835	SHORE RD	345	1	778.7	1512.0	1.00000	1.00000	616.3	1349.5
			C:	PV_RLRD_HVDC							1900					
			Open	126294	PLTVLLEY	345	998294	PV_RCT_2	416	1	0.00682	0.00000	-600.0	-600.0		
			Open	128860	RULND RD	345	999860	RLND_INV	416	1	-0.29322	0.00000	-568.0	-568.0		
89	741.7	4180.5	L:	129281	GLNWD GT	138	129282	GLNWD NO	138	1	-35.1	-297.0	-0.35316			
				Base Case												
90	741.8	4180.7	L:	129281	GLNWD GT	138	129288	ROSLYN	138	1	35.0	297.0	0.35316			
				Base Case												

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91	750.3	4189.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	394.2	770.0	0.50089	0.50089	307.6	683.4
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.19386	0.00000	446.7	446.7
92	754.4	4193.2	*L: 128835 SHORE RD	345	129293 SHORE RD	138	1	392.1	770.0	0.50089	0.50089	307.6	685.5
			C:128860 RULND RD	345	999860 RLND_INV	416	1						
			Open 128860 RULND RD	345	999860 RLND_INV	416	1			-0.14885	0.00000	-568.0	-568.0
93	755.8	4194.6	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	392.8	770.0	0.49911	0.49911	306.5	683.7
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.19317	0.00000	446.7	446.7
94	758.9	4197.7	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-71.0	-339.0	-0.35316	-0.35316	19.4	-248.6
			C:128842 NEPTCONV	345	128847 NWBRG	345	1						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.13697	0.00000	-660.3	-660.3
95	759.9	4198.7	*L: 128835 SHORE RD	345	129293 SHORE RD	138	2	390.7	770.0	0.49911	0.49911	306.5	685.8
			C:128860 RULND RD	345	999860 RLND_INV	416	1						
			Open 128860 RULND RD	345	999860 RLND_INV	416	1			-0.14832	0.00000	-568.0	-568.0
97	765.9	4204.7	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-32.9	339.0	0.48558	0.34479	-76.0	188.0
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			-0.33877	-0.41559	-127.4	-445.7
99	767.1	4205.9	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-16.8	-379.0	-0.47215	-0.34479	-23.8	-288.3
			C:129270 E.G.C.	138	129288 ROSLYN	138	1						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.36063	-0.35316	19.4	-251.5
100	772.5	4211.4	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-106.2	-379.0	-0.35316	-0.35316	-35.1	-307.9
			C:128860 RULND RD	345	999860 RLND_INV	416	1						
			Open 128860 RULND RD	345	999860 RLND_INV	416	1			0.12521	0.00000	-568.0	-568.0
101	772.6	4211.5	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	106.1	379.0	0.35316	0.35316	35.0	307.9
			C:128860 RULND RD	345	999860 RLND_INV	416	1						
			Open 128860 RULND RD	345	999860 RLND_INV	416	1			-0.12521	0.00000	-568.0	-568.0
109	776.6	4215.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	71.2	339.0	0.34479	0.34479	-76.0	191.7
			C:126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.23029	-0.00000	639.5	639.5
114	777.4	4216.2	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	71.0	339.0	0.34479	0.34479	-76.0	192.0
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.23029	0.00000	-638.3	-638.3
115	778.6	4217.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	70.6	339.0	0.34479	0.34479	-76.0	192.4
			C:128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.23029	-0.00000	636.6	636.6
116	778.6	4217.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	70.6	339.0	0.34479	0.34479	-76.0	192.4
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.23029	0.00000	-636.5	-636.5
117	778.6	4217.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	70.5	339.0	0.34479	0.34479	-76.0	192.4
			C:BUS:EGC_345										
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.22997	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22114	0.00000	4.6	4.6
118	778.6	4217.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	70.5	339.0	0.34479	0.34479	-76.0	192.4
			C:SPRN-BRK-345										
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.22997	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					

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			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22114	0.00000	4.6	4.6
119	786.5	4225.3	L: 129343 NRTHPT P	138	129344 NRTHPT1	138	1	547.0	675.0	0.16275	0.00000	446.7	446.7
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.16275	1.00000	616.3	1402.8
120	787.9	4226.7	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-181.3	-636.0	-0.57708	-0.41559	-127.4	-454.8
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1533					
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1			0.41071	-0.39319	-131.3	-441.1
121	789.0	4227.8	L: 129343 NRTHPT P	138	129344 NRTHPT1	138	1	546.6	675.0	0.16275	0.00000	446.7	446.7
			C:BUS:SHORE_RD_345					1735					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.16275	0.50089	307.6	702.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.16275	0.49911	306.5	700.3
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.02089	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.02089	0.00000	0.0	0.0
122	792.2	4231.1	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-23.8	-297.0	-0.34479			
			Base Case										
123	799.7	4238.6	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	19.4	-263.0	-0.35316			
			Base Case										
129	805.4	4244.2	*L: 129270 E.G.C.	138	129288 ROSLYN	138	1	47.3	-339.0	-0.47967	-0.35316	19.4	-265.0
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1521					
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			-0.36693	0.34479	-76.0	201.7
130	807.2	4246.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	119.4	165.0	0.05648	0.04840	107.5	146.6
			C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	1638					
			Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1			0.12927	0.06244	92.3	142.7
135	810.4	4249.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-182.4	-636.0	-0.55973	-0.39319	-131.3	-450.0
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1532					
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1			0.40073	-0.41559	-127.4	-464.2
136	811.1	4249.9	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-302.5	-497.0	-0.23977			
			Base Case										
139	815.1	4254.0	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	301.6	497.0	0.23977			
			Base Case										
141	818.8	4257.6	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	108.1	165.0	0.06953	0.06244	92.3	143.4
			C:129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	1639					
			Open 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1			0.14650	0.04840	107.5	147.1
142	820.6	4259.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-295.0	-636.0	-0.41559	-0.41559	-127.4	-468.4
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.26203	-0.00000	639.5	639.5
143	821.3	4260.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-294.7	-636.0	-0.41559	-0.41559	-127.4	-468.7
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.26203	0.00000	-638.3	-638.3
144	822.5	4261.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-294.2	-636.0	-0.41559	-0.41559	-127.4	-469.2
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.26203	-0.00000	636.6	636.6
145	822.5	4261.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-294.2	-636.0	-0.41559	-0.41559	-127.4	-469.2
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.26203	0.00000	-636.5	-636.5
146	822.5	4261.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-294.2	-636.0	-0.41559	-0.41559	-127.4	-469.2
			C:SPRN-BRK-345					1892					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.26174	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00057	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.25135	0.00000	4.6	4.6

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147	822.5	4261.3	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-294.2	-636.0	-0.41559	-0.41559	-127.4	-469.2
			C:BUS:EGC_345				1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.26174	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00057	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.25135	0.00000	4.6	4.6
148	825.6	4264.4	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-237.9	-378.0	-0.16971			
			Base Case										
169	852.3	4291.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-63.4	339.0	0.47215	0.34479	-76.0	217.8
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1530					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.36063	-0.35316	-35.1	-336.0
170	852.3	4291.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-63.4	339.0	0.47215	0.34479	-76.0	217.8
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1531					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.36063	0.35316	35.0	336.0
178	856.9	4295.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	94.3	165.0	0.08249	0.06244	92.3	145.8
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1530					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			-0.05678	-0.35316	-35.1	-337.7
179	857.0	4295.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	94.3	165.0	0.08249	0.06244	92.3	145.8
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1531					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			0.05678	0.35316	35.0	337.7
216	875.5	4314.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.8	-636.0	-0.39319	-0.39319	-131.3	-475.6
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.25083	-0.00000	639.5	639.5
217	876.3	4315.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.5	-636.0	-0.39319	-0.39319	-131.3	-475.9
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.25083	0.00000	-638.3	-638.3
218	877.4	4316.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.25083	-0.00000	636.6	636.6
219	877.4	4316.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.25083	0.00000	-636.5	-636.5
220	877.4	4316.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3
			C:BUS:EGC_345				1736						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.25054	-0.00000	641.0	641.0
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00057	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.24061	0.00000	4.6	4.6
221	877.4	4316.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-291.0	-636.0	-0.39319	-0.39319	-131.3	-476.3
			C:SPRN-BRK-345				1892						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.25054	-0.00000	641.0	641.0
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00057	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.24061	0.00000	4.6	4.6
225	880.0	4318.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	108.6	165.0	0.06413	0.04840	107.5	150.1
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1522					





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			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495											
			Open 128824 EGC DUM		345 128825 EGC PAR		345	1					0.02598	-0.00000	636.6	636.6			
2077	907.3	4346.2	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		117.3	165.0	0.05260		0.04840	107.5	151.4				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1635											
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0	1					0.06524	0.06437	150.1	208.5			
2081	908.3	4347.1	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-462.5	-675.0	-0.23394		0.00000	-318.3	-318.3				
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465											
			Open 126266 DUNWODIE		345 128835 SHORE RD		345	1					-0.23394	1.00000	616.3	1524.6			
2085	909.2	4348.1	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		462.3	675.0	0.23394		0.00000	318.1	318.1				
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465											
			Open 126266 DUNWODIE		345 128835 SHORE RD		345	1					0.23394	1.00000	616.3	1525.5			
2091	910.4	4349.2	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-462.0	-675.0	-0.23394		0.00000	-318.3	-318.3				
			C:BUS:SHORE_RD_345					1735											
			Open 128835 SHORE RD		345 129293 SHORE RD		138	1					-0.23394	0.50089	307.6	763.6			
			Open 128835 SHORE RD		345 129293 SHORE RD		138	2					-0.23394	0.49911	306.5	760.9			
			Open 126266 DUNWODIE		345 128835 SHORE RD		345	1					-0.01532	0.00000	2.2	2.2			
			Open 150 DUNWD SW		345 126266 DUNWODIE		345	1					-0.01532	0.00000	0.0	0.0			
2096	911.3	4350.1	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		461.8	675.0	0.23394		0.00000	318.1	318.1				
			C:BUS:SHORE_RD_345					1735											
			Open 128835 SHORE RD		345 129293 SHORE RD		138	1					0.23394	0.50089	307.6	764.0			
			Open 128835 SHORE RD		345 129293 SHORE RD		138	2					0.23394	0.49911	306.5	761.3			
			Open 126266 DUNWODIE		345 128835 SHORE RD		345	1					0.01532	0.00000	2.2	2.2			
			Open 150 DUNWD SW		345 126266 DUNWODIE		345	1					0.01532	0.00000	0.0	0.0			
2138	917.0	4355.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	200											
			Open 126299 REACBUS		345 147857 DVNPT NK		345	1					0.02054	-0.00000	639.5	639.5			
2139	917.5	4356.3	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1475											
			Open 128830 HMP HRBR		345 147857 DVNPT NK		345	1					-0.02054	0.00000	-638.3	-638.3			
2144	918.2	4357.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:SPRN-BRK-345					1892											
			Open 126298 SPRBROOK		345 126299 REACBUS		345	BY					0.02058	-0.00000	641.0	641.0			
			Open 126299 REACBUS		345 147857 DVNPT NK		345	1		NA									
			Open 128830 HMP HRBR		345 147857 DVNPT NK		345	1		NA									
			Open 128824 EGC DUM		345 128830 HMP HRBR		345	1		NA									
			Open 128824 EGC DUM		345 128825 EGC PAR		345	1		NA									
			Open 128822 E.G.C.-1		345 128825 EGC PAR		345	1					0.00008	0.00000	-318.0	-318.0			
			Open 128823 E.G.C.-2		345 128825 EGC PAR		345	1					-0.01947	0.00000	4.6	4.6			
2145	918.2	4357.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:BUS:EGC_345					1736											
			Open 126299 REACBUS		345 147857 DVNPT NK		345	1		NA									
			Open 126298 SPRBROOK		345 126299 REACBUS		345	BY					0.02058	-0.00000	641.0	641.0			
			Open 128830 HMP HRBR		345 147857 DVNPT NK		345	1		NA									
			Open 128824 EGC DUM		345 128830 HMP HRBR		345	1		NA									
			Open 128824 EGC DUM		345 128825 EGC PAR		345	1		NA									
			Open 128822 E.G.C.-1		345 128825 EGC PAR		345	1					0.00008	0.00000	-318.0	-318.0			
			Open 128823 E.G.C.-2		345 128825 EGC PAR		345	1					-0.01947	0.00000	4.6	4.6			
2146	918.2	4357.1	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1495											
			Open 128824 EGC DUM		345 128825 EGC PAR		345	1					0.02054	-0.00000	636.6	636.6			
2147	918.2	4357.1	*L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		120.6	165.0	0.04840		0.04840	107.5	151.9				
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1496											
			Open 128824 EGC DUM		345 128830 HMP HRBR		345	1					-0.02054	0.00000	-636.5	-636.5			
2197	921.3	4360.1	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		-145.2	-636.0	-0.53274		-0.39319	-131.3	-493.6				
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1530											

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2199	921.3	4360.1	Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1		0.39515	-0.35316	-35.1	-360.4		
			L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-145.2	-636.0	-0.53274	-0.39319	-131.3	-493.6	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1531						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.39515	0.35316	35.0	360.4
5592	930.0	4368.8	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-131.3	-497.0	-0.39319				
			Base Case											
5823	961.7	4400.5	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-123.7	-636.0	-0.53274	-0.39319	-131.3	-509.5	
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1524						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1				0.39515	-0.35316	19.4	-320.2
5860	969.1	4408.0	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-96.2	-636.0	-0.55698	-0.41559	-127.4	-530.2	
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1521						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1				-0.41005	0.34479	-76.0	258.1
9274	978.4	4417.2	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-229.4	-636.0	-0.41559	-0.41559	-127.4	-534.0	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.15449	0.00000	-660.3	-660.3
9383	983.3	4422.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-76.0	263.0	0.34479				
			Base Case											
9482	999.9	4438.7	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	929.1	1399.0	0.46993	-0.00000	639.5	639.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.46993	1.00000	616.3	1616.1
9487	1001.9	4440.8	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	928.2	1399.0	0.46993	-0.00000	639.5	639.5	
			C:BUS:SHORE_RD_345					1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.46993	0.50089	307.6	809.4
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.46993	0.49911	306.5	806.6
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.03074	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.03074	0.00000	0.0	0.0
9507	1006.2	4445.0	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	926.2	1399.0	0.46993	-0.00000	636.6	636.6	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.46993	1.00000	616.3	1622.5
9508	1006.2	4445.0	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-926.2	-1399.0	-0.46993	0.00000	-636.5	-636.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.46993	1.00000	616.3	1622.5
9513	1008.3	4447.1	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	925.2	1399.0	0.46993	-0.00000	636.6	636.6	
			C:BUS:SHORE_RD_345					1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.46993	0.50089	307.6	812.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.46993	0.49911	306.5	809.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.03074	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.03074	0.00000	0.0	0.0
9514	1008.3	4447.1	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-925.2	-1399.0	-0.46993	0.00000	-636.5	-636.5	
			C:BUS:SHORE_RD_345					1735						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.46993	0.50089	307.6	812.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.46993	0.49911	306.5	809.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.03074	0.00000	2.2	2.2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.03074	0.00000	0.0	0.0
13005	1032.4	4471.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-388.5	-636.0	-0.23977	-0.23977	-302.5	-550.1	
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1566						
			Open 129361 RULND RD	138	129362 RUL PAR	138	1				-0.46422	0.00000	185.1	185.1
13019	1032.8	4471.6	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-388.4	-636.0	-0.23977	-0.23977	-302.5	-550.2	
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1568						
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1				0.46422	0.00000	-184.9	-184.9
13039	1034.6	4473.4	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-387.9	-636.0	-0.23977	-0.23977	-302.5	-550.6	
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1505						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				0.25923	0.00000	-329.5	-329.5
13067	1036.5	4475.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.5	636.0	0.23977	0.23977	301.6	550.1	
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1566						

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			Open 129361 RULND RD	138	129362 RUL PAR	138	1		0.46422	0.00000	185.1	185.1		
13077	1036.8	4475.7	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.4	636.0	0.23977	0.23977	301.6	550.2	
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1568						
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1				-0.46422	0.00000	-184.9	-184.9
13091	1038.7	4477.5	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	387.0	636.0	0.23977	0.23977	301.6	550.6	
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1505						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				-0.25923	0.00000	-329.5	-329.5
13098	1039.1	4477.9	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	42.0	235.0	0.18572				
			Base Case											
13192	1083.7	4522.5	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	42.1	235.0	0.17801				
			Base Case											
13240	1123.4	4562.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-366.6	-636.0	-0.23977	-0.23977	-302.5	-571.9	
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1550						
			Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1				0.38867	0.00000	-164.9	-164.9
13241	1123.4	4562.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-366.6	-636.0	-0.23977	-0.23977	-302.5	-571.9	
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1562						
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1				-0.38867	0.00000	164.9	164.9
13254	1127.5	4566.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	365.7	636.0	0.23977	0.23977	301.6	571.9	
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1550						
			Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1				-0.38867	0.00000	-164.9	-164.9
13255	1127.5	4566.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	365.7	636.0	0.23977	0.23977	301.6	571.9	
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1562						
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1				0.38867	0.00000	164.9	164.9
15001	1165.1	4603.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	78.4	118.0	0.03399				
			Base Case											
15002	1165.1	4603.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	78.4	118.0	0.03399				
			Base Case											
18543	1204.3	4643.1	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	122.2	165.0	0.03551	0.02955	99.0	134.6	
			C:129333 GRENLAWN	138	129677 GRENLAWN	69.0	1	1645						
			Open 129333 GRENLAWN	138	129677 GRENLAWN	69.0	1				0.26844	0.02219	86.7	113.4
18714	1212.7	4651.5	L: 129355 PILGRIM	138	129686 PILGRM	69.0	1	288.6	335.0	0.03827	0.02601	196.2	227.7	
			C:129355 PILGRIM	138	129686 PILGRM	69.0	2	1647						
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	2				0.49967	0.02455	185.0	214.7
18732	1215.0	4653.8	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-120.1	-211.0	-0.07485				
			Base Case											
18853	1223.2	4662.0	L: Interface 56 K-to-I					-1687.8	-2911.0	-1.00000	-1.00000	-1255.8	-2479.0	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.65425	0.00000	-660.3	-660.3
18854	1223.2	4662.0	L: Interface 55 I-to-K					1687.8	2911.0	1.00000	1.00000	1255.8	2479.0	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1499						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.65425	0.00000	-660.3	-660.3
20567	1241.0	4679.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	48.5	253.0	0.16478				
			Base Case											
20598	1250.2	4689.1	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-336.2	-636.0	-0.23977	-0.23977	-302.5	-602.3	
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1	1551						
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1				-0.38867	0.00000	86.7	86.7
20602	1254.3	4693.2	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	335.3	636.0	0.23977	0.23977	301.6	602.3	
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1	1551						
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1				0.38867	0.00000	86.7	86.7
20615	1271.2	4710.0	L: Interface 18 NYC-LIPA					402.1	869.0	0.36732	0.00000	175.7	175.7	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.36732	1.00000	616.3	1887.5
20616	1271.2	4710.0	L: Interface 58 K-to-J					-402.1	-869.0	-0.36732	0.00000	-175.7	-175.7	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1465						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.36732	1.00000	616.3	1887.5

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20617	1271.2	4710.0	L: Interface 57 J-to-K			402.1	869.0	0.36732	0.00000	175.7	175.7
			C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465								
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.36732	1.00000	616.3 1887.5
20620	1272.1	4710.9	L: 129339 KINGS HWY 138 129355 PILGRIM 138 1			-348.1	-636.0	-0.22634	-0.23977	-302.5	-607.5
			C:129092 PTJEFG3 20.0 129448 PT JEFF1 138 1 1625								
			Open 129092 PTJEFG3 20.0 129448 PT JEFF1 138 1						0.24892	0.05394	-182.9 -114.3
20621	1273.5	4712.3	L: Interface 58 K-to-J			-401.2	-869.0	-0.36732	0.00000	-175.7	-175.7
			C:BUS:SHORE_RD_345 1735								
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1						-0.36732	0.50089	307.6 945.4
			Open 128835 SHORE RD 345 129293 SHORE RD 138 2						-0.36732	0.49911	306.5 942.1
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.00985	0.00000	2.2 2.2
			Open 150 DUNWD SW 345 126266 DUNWODIE 345 1						0.00985	0.00000	0.0 0.0
20622	1273.5	4712.3	L: Interface 57 J-to-K			401.2	869.0	0.36732	0.00000	175.7	175.7
			C:BUS:SHORE_RD_345 1735								
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1						0.36732	0.50089	307.6 945.4
			Open 128835 SHORE RD 345 129293 SHORE RD 138 2						0.36732	0.49911	306.5 942.1
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						-0.00985	0.00000	2.2 2.2
			Open 150 DUNWD SW 345 126266 DUNWODIE 345 1						-0.00985	0.00000	0.0 0.0
20623	1273.5	4712.3	L: Interface 18 NYC-LIPA			401.2	869.0	0.36732	0.00000	175.7	175.7
			C:BUS:SHORE_RD_345 1735								
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1						0.36732	0.50089	307.6 945.4
			Open 128835 SHORE RD 345 129293 SHORE RD 138 2						0.36732	0.49911	306.5 942.1
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						-0.00985	0.00000	2.2 2.2
			Open 150 DUNWD SW 345 126266 DUNWODIE 345 1						-0.00985	0.00000	0.0 0.0
20625	1273.8	4712.7	L: 129339 KINGS HWY 138 129355 PILGRIM 138 1			-347.4	-636.0	-0.22652	-0.23977	-302.5	-608.0
			C:129093 PTJEFG4 20.0 129449 PT JEFF2 138 1 1626								
			Open 129093 PTJEFG4 20.0 129449 PT JEFF2 138 1						0.24893	0.05320	-180.4 -112.6
20630	1275.6	4714.4	L: 126298 SPRBROOK 345 126299 REACBUS 345 BY 1465			930.6	1530.0	0.46993	-0.00000	641.0	641.0
			C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465								
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.46993	1.00000	616.3 1891.8
20633	1276.4	4715.2	L: 129339 KINGS HWY 138 129427 HOLTS GT 138 1			347.1	636.0	0.22634	0.23977	301.6	607.6
			C:129092 PTJEFG3 20.0 129448 PT JEFF1 138 1 1625								
			Open 129092 PTJEFG3 20.0 129448 PT JEFF1 138 1						-0.24892	0.05394	-182.9 -114.1
20636	1277.6	4716.5	L: 126298 SPRBROOK 345 126299 REACBUS 345 BY 1735			929.6	1530.0	0.46993	-0.00000	641.0	641.0
			C:BUS:SHORE_RD_345 1735								
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1						0.46993	0.50089	307.6 947.5
			Open 128835 SHORE RD 345 129293 SHORE RD 138 2						0.46993	0.49911	306.5 944.2
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.03074	0.00000	2.2 2.2
			Open 150 DUNWD SW 345 126266 DUNWODIE 345 1						0.03074	0.00000	0.0 0.0
20639	1278.2	4717.0	L: 129339 KINGS HWY 138 129427 HOLTS GT 138 1			346.5	636.0	0.22652	0.23977	301.6	608.0
			C:129093 PTJEFG4 20.0 129449 PT JEFF2 138 1 1626								
			Open 129093 PTJEFG4 20.0 129449 PT JEFF2 138 1						-0.24893	0.05320	-180.4 -112.4
22223	1283.9	4722.7	L: 129339 KINGS HWY 138 129355 PILGRIM 138 1			-310.8	-636.0	-0.25325	-0.23977	-302.5	-610.4
			C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465								
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						-0.01348	1.00000	616.3 1900.2
22251	1284.0	4722.9*	L: 129339 KINGS HWY 138 129355 PILGRIM 138 1			-310.8	-636.0	-0.25325	-0.23977	-302.5	-610.4
			C:BUS:SHORE_RD_345 1735								
			Open 128835 SHORE RD 345 129293 SHORE RD 138 1						-0.01348	0.50089	307.6 950.7
			Open 128835 SHORE RD 345 129293 SHORE RD 138 2						-0.01348	0.49911	306.5 947.4
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.00170	0.00000	2.2 2.2
			Open 150 DUNWD SW 345 126266 DUNWODIE 345 1						0.00170	0.00000	0.0 0.0
22361	1287.8	4726.6	L: 129339 KINGS HWY 138 129427 HOLTS GT 138 1			309.9	636.0	0.25325	0.23977	301.6	610.3
			C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1465								
			Open 126266 DUNWODIE 345 128835 SHORE RD 345 1						0.01348	1.00000	616.3 1904.1
22362	1287.9	4726.7*	L: 129339 KINGS HWY 138 129427 HOLTS GT 138 1			309.8	636.0	0.25325	0.23977	301.6	610.4

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			C:BUS:SHORE_RD_345																	1735		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				0.01348	0.50089	307.6	952.7							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				0.01348	0.49911	306.5	949.3							
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.00170	0.00000	2.2	2.2							
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				-0.00170	0.00000	0.0	0.0							
22419	1298.1	4736.9	L: Interface 55 I-to-K											1612.9	2911.0	1.00000				1.00000	1255.8	2553.9
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1													1557	
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1														
22420	1298.1	4736.9	L: Interface 56 K-to-I											-1612.9	-2911.0	-1.00000				-1.00000	-1255.8	-2553.9
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1														
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1														
22436	1303.4	4742.2	L: Interface 55 I-to-K											1607.6	2911.0	1.00000				1.00000	1255.8	2559.2
			C:128860 RULND RD	345	999860	RLND_INV	416	1														
			Open 128860 RULND RD	345	999860	RLND_INV	416	1														
22437	1303.4	4742.2	L: Interface 56 K-to-I											-1607.6	-2911.0	-1.00000				-1.00000	-1255.8	-2559.2
			C:128860 RULND RD	345	999860	RLND_INV	416	1														
			Open 128860 RULND RD	345	999860	RLND_INV	416	1														
22461	1313.8	4752.6	L: Interface 56 K-to-I											-1597.2	-2911.0	-1.00000				-1.00000	-1255.8	-2569.6
			C:PV_RLRD_HVDC																			
			Open 126294 PLTVLLEY	345	998294	PV_RCT_2	416	1														
			Open 128860 RULND RD	345	999860	RLND_INV	416	1														
22462	1313.8	4752.6	L: Interface 55 I-to-K											1597.2	2911.0	1.00000				1.00000	1255.8	2569.6
			C:PV_RLRD_HVDC																			
			Open 126294 PLTVLLEY	345	998294	PV_RCT_2	416	1														
			Open 128860 RULND RD	345	999860	RLND_INV	416	1														
22576	1381.6	4820.4	L: 129248 L SUCS	138	129543	LKE SCSS	69.0	1						150.1	239.0	0.06437						
			Base Case																			
23214	1459.2	4898.0	L: Interface 56 K-to-I											-1451.8	-2911.0	-1.00000				-1.00000	-1255.8	-2715.0
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1														
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1														
23215	1459.2	4898.0	L: Interface 55 I-to-K											1451.8	2911.0	1.00000				1.00000	1255.8	2715.0
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1														
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1														
23216	1526.3	4965.1	L: Interface 56 K-to-I											-1384.7	-2911.0	-1.00000				-1.00000	-1255.8	-2782.1
			C:SIN:250																			
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2														
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																
23217	1526.3	4965.1	L: Interface 55 I-to-K											1384.7	2911.0	1.00000				1.00000	1255.8	2782.1
			C:SIN:250																			
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2														
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																
23218	1528.8	4967.6	L: Interface 56 K-to-I											-1382.2	-2911.0	-1.00000				-1.00000	-1255.8	-2784.6
			C:GEN:MILLST 3																			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																
23219	1528.8	4967.6	L: Interface 55 I-to-K											1382.2	2911.0	1.00000				1.00000	1255.8	2784.6
			C:GEN:MILLST 3																			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																
23220	1528.8	4967.6	L: Interface 56 K-to-I											-1382.2	-2911.0	-1.00000				-1.00000	-1255.8	-2784.6
			C:GEN:MLS3&OMS																			
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2														
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																
23221	1528.8	4967.6	L: Interface 55 I-to-K											1382.2	2911.0	1.00000				1.00000	1255.8	2784.6
			C:GEN:MLS3&OMS																			
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2														
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch																

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23222	1551.9	4990.7	L: Interface 56 K-to-I				-1421.7	-2911.0	-0.95968		-1.00000	-1255.8	-2807.7
			C:129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1 1619										
			Open 129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1							0.59357	0.06792	-279.4	-174.0
23223	1551.9	4990.7	L: Interface 55 I-to-K				1421.7	2911.0	0.95968		1.00000	1255.8	2807.7
			C:129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1 1619										
			Open 129026 NRTPTG3 22.0 129342 NRTHPRT2 138 1							-0.59357	0.06792	-279.4	-174.0
23224	1557.9	4996.8	*L: Interface 56 K-to-I				-1412.3	-2911.0	-0.96195		-1.00000	-1255.8	-2813.7
			C:129024 NRTPTG1 22.0 129346 NRTHPT3 138 1 1617										
			Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1							0.56015	0.06792	-279.5	-173.6
23225	1557.9	4996.8	*L: Interface 55 I-to-K				1412.3	2911.0	0.96195		1.00000	1255.8	2813.7
			C:129024 NRTPTG1 22.0 129346 NRTHPT3 138 1 1617										
			Open 129024 NRTPTG1 22.0 129346 NRTHPT3 138 1							-0.56015	0.06792	-279.5	-173.6
25760	1685.4	5124.2	L: Interface 15 I-to-K				1686.6	3372.0	1.00000		1.00000	1254.6	2940.0
			C:128842 NEPTCONV 345 128847 NWBRG 345 1 1499										
			Open 128842 NEPTCONV 345 128847 NWBRG 345 1							-0.65425	0.00000	-660.3	-660.3
25823	1760.3	5199.1	L: Interface 15 I-to-K				1611.7	3372.0	1.00000		1.00000	1254.6	3014.9
			C:129343 NRTHPT P 138 129344 NRTHPT1 138 1 1557										
			Open 129343 NRTHPT P 138 129344 NRTHPT1 138 1							0.79948	0.00000	446.7	446.7
25824	1765.6	5204.4	L: Interface 15 I-to-K				1606.4	3372.0	1.00000		1.00000	1254.6	3020.2
			C:128860 RULND RD 345 999860 RLND_INV 416 1 1504										
			Open 128860 RULND RD 345 999860 RLND_INV 416 1							-0.61937	0.00000	-568.0	-568.0
25825	1776.0	5214.8	L: Interface 15 I-to-K				1596.0	3372.0	1.00000		1.00000	1254.6	3030.6
			C:PV_RLRD_HVDC 1900										
			Open 126294 PLTVLLEY 345 998294 PV_RCT_2 416 1							0.00917	0.00000	-600.0	-600.0
			Open 128860 RULND RD 345 999860 RLND_INV 416 1							-0.61078	0.00000	-568.0	-568.0
25830	1921.4	5360.2	L: Interface 15 I-to-K				1450.6	3372.0	1.00000		1.00000	1254.6	3176.0
			C:128880 SHMHVDCL 192 129459 SHOREHAM 138 1 1505										
			Open 128880 SHMHVDCL 192 129459 SHOREHAM 138 1							-0.59497	0.00000	-329.5	-329.5
25837	1988.5	5427.3	L: Interface 15 I-to-K				1383.5	3372.0	1.00000		1.00000	1254.6	3243.1
			C:SIN:250 1791										
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2							-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3 24.0 1284.7 MW dispatch										
25838	1991.0	5429.8	L: Interface 15 I-to-K				1381.0	3372.0	1.00000		1.00000	1254.6	3245.6
			C:GEN:MILLST 3 1685										
			Remove unit 3 from bus 103563 MILL#3 24.0 1284.7 MW dispatch										
25839	1991.0	5429.8	L: Interface 15 I-to-K				1381.0	3372.0	1.00000		1.00000	1254.6	3245.6
			C:GEN:MLS3&OMS 1687										
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2							-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3 24.0 1284.7 MW dispatch										
25840	2010.0	5448.8	L: Interface 78 LIPA Export				-3440.0	-5450.0	-1.00000		-1.00000	-2872.0	-4882.0
			C:128860 RULND RD 345 999860 RLND_INV 416 1 1504										
			Open 128860 RULND RD 345 999860 RLND_INV 416 1							1.00000	0.00000	-568.0	-568.0
25841	2016.8	5455.6	L: Interface 78 LIPA Export				-3433.2	-5450.0	-1.00000		-1.00000	-2872.0	-4888.8
			C:PV_RLRD_HVDC 1900										
			Open 126294 PLTVLLEY 345 998294 PV_RCT_2 416 1							-0.00581	0.00000	-600.0	-600.0
			Open 128860 RULND RD 345 999860 RLND_INV 416 1							0.99419	0.00000	-568.0	-568.0
25846	2029.5	5468.3	L: Interface 15 I-to-K				1342.5	3372.0	1.00000		1.00000	1254.6	3284.1
			C:GEN:SEABROOK 1686										
			Remove unit 1 from bus 102869 SBRK G1 25.0 1327.0 MW dispatch										
25847	2029.5	5468.3	*L: Interface 15 I-to-K				1342.5	3372.0	1.00000		1.00000	1254.6	3284.1
			C:GEN:SEAB&OMS 1688										
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2							-0.00002	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1 25.0 1327.0 MW dispatch										
27145	2256.0	5694.8	L: Interface 20 LI SUM				1985.0	4241.0	1.00000		1.00000	1430.3	3686.3
			C:128842 NEPTCONV 345 128847 NWBRG 345 1 1499										

## LIPA Import

			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.84018	0.00000	-660.3	-660.3
27148	2352.5	5791.3	L: Interface	19	LIPA	IMPORT			3718.3	5911.0	0.93208	1.00000	3438.8	5791.3	
			C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1617						
			Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1				-1.00000	0.06792	-279.5	-119.7
27149	2352.5	5791.4	L: Interface	19	LIPA	IMPORT			3718.2	5911.0	0.93208	1.00000	3438.8	5791.4	
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1619						
			Open 129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1				-1.00000	0.06792	-279.4	-119.6
27150	2355.9	5794.7	L: Interface	19	LIPA	IMPORT			3688.5	5911.0	0.94340	1.00000	3438.8	5794.7	
			C:129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1	1618						
			Open 129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1				-1.00000	0.05660	-249.7	-116.3
27151	2355.9	5794.7	L: Interface	19	LIPA	IMPORT			3688.4	5911.0	0.94340	1.00000	3438.8	5794.7	
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1620						
			Open 129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1				-1.00000	0.05660	-249.6	-116.3
27152	2357.7	5796.5	L: Interface	20	LI	SUM			1883.3	4241.0	1.00000	1.00000	1430.3	3788.0	
			C:128860 RULND RD	345	999860	RLND_INV	416	1	1504						
			Open 128860 RULND RD	345	999860	RLND_INV	416	1				-0.79760	0.00000	-568.0	-568.0
27153	2359.4	5798.2	L: Interface	20	LI	SUM			1881.6	4241.0	1.00000	1.00000	1430.3	3789.7	
			C:PV_RLRD_HVDC						1900						
			Open 126294 PLTVLLEY	345	998294	PV_RCT_2	416	1				-0.00978	0.00000	-600.0	-600.0
			Open 128860 RULND RD	345	999860	RLND_INV	416	1				-0.78419	0.00000	-568.0	-568.0
27154	2364.0	5802.8	L: Interface	20	LI	SUM			1877.0	4241.0	1.00000	1.00000	1430.3	3794.3	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1557						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1				1.00000	0.00000	446.7	446.7
27158	2419.8	5858.6	L: Interface	19	LIPA	IMPORT			3621.8	5911.0	0.94606	1.00000	3438.8	5858.6	
			C:129092 PTJEFG3	20.0	129448	PT JEFF1	138	1	1625						
			Open 129092 PTJEFG3	20.0	129448	PT JEFF1	138	1				-1.00000	0.05394	-182.9	-52.4
27159	2419.9	5858.8	L: Interface	19	LIPA	IMPORT			3619.8	5911.0	0.94680	1.00000	3438.8	5858.8	
			C:128900 BARETG1	20.0	129202	BARRETT1	138	1	1611						
			Open 128900 BARETG1	20.0	129202	BARRETT1	138	1				-1.00000	0.05320	-181.0	-52.2
27160	2420.6	5859.4	L: Interface	19	LIPA	IMPORT			3619.2	5911.0	0.94680	1.00000	3438.8	5859.4	
			C:129093 PTJEFG4	20.0	129449	PT JEFF2	138	1	1626						
			Open 129093 PTJEFG4	20.0	129449	PT JEFF2	138	1				-1.00000	0.05320	-180.4	-51.6
27161	2420.7	5859.5	L: Interface	19	LIPA	IMPORT			3619.1	5911.0	0.94680	1.00000	3438.8	5859.5	
			C:128901 BARETG2	20.0	129203	BARRETT2	138	1	1612						
			Open 128901 BARETG2	20.0	129203	BARRETT2	138	1				-1.00000	0.05320	-180.3	-51.5
27162	2460.7	5899.6	L: Interface	19	LIPA	IMPORT			3598.8	5911.0	0.93963	1.00000	3438.8	5899.6	
			C:129071 CAITH-GT	16.5	129418	CAITHNESS1	138	1	1622						
			Open 129071 CAITH-GT	16.5	129418	CAITHNESS1	138	1				-1.00000	0.06037	-160.0	-11.4
27163	2460.7	5899.6	*L: Interface	19	LIPA	IMPORT			3598.8	5911.0	0.93963	1.00000	3438.8	5899.6	
			C:129418 CAITHNESS1	138	129461	SILLS RD2	138	1	1577						
			Open 129418 CAITHNESS1	138	129461	SILLS RD2	138	1				-1.00000	0.06037	-160.0	-11.4
27167	2466.0	5904.8	L: Interface	78	LIPA	Export			-3151.5	-5450.0	-0.93208	-1.00000	-2872.0	-5338.0	
			C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1617						
			Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1				1.00000	0.06792	-279.5	-112.0
27169	2466.1	5904.9	L: Interface	78	LIPA	Export			-3151.4	-5450.0	-0.93208	-1.00000	-2872.0	-5338.1	
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1619						
			Open 129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1				1.00000	0.06792	-279.4	-111.9
27170	2468.0	5906.8	L: Interface	78	LIPA	Export			-3121.7	-5450.0	-0.94340	-1.00000	-2872.0	-5340.0	
			C:129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1	1618						
			Open 129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1				1.00000	0.05660	-249.7	-110.0
27171	2468.1	5906.9	L: Interface	78	LIPA	Export			-3121.6	-5450.0	-0.94340	-1.00000	-2872.0	-5340.1	
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1620						
			Open 129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1				1.00000	0.05660	-249.6	-109.9
28474	2531.6	5970.4	L: Interface	78	LIPA	Export			-3055.0	-5450.0	-0.94606	-1.00000	-2872.0	-5403.6	
			C:129092 PTJEFG3	20.0	129448	PT JEFF1	138	1	1625						



# LIPA Import

				Open 129092 PTJEFG3	20.0	129448	PT JEFF1	138	1		1.00000	0.05394	-182.9	-46.4
28475	2531.7	5970.5	L:	Interface	78		LIPA Export					-1.00000	-2872.0	-5403.7
				C:128900 BARETG1	20.0	129202	BARRETT1	138	1	1611				
				Open 128900 BARETG1	20.0	129202	BARRETT1	138	1		1.00000	0.05320	-181.0	-46.3
28476	2532.3	5971.1	L:	Interface	78		LIPA Export					-1.00000	-2872.0	-5404.3
				C:129093 PTJEFG4	20.0	129449	PT JEFF2	138	1	1626				
				Open 129093 PTJEFG4	20.0	129449	PT JEFF2	138	1		1.00000	0.05320	-180.4	-45.7
28477	2532.4	5971.2	*L:	Interface	78		LIPA Export					-1.00000	-2872.0	-5404.4
				C:128901 BARETG2	20.0	129203	BARRETT2	138	1	1612				
				Open 128901 BARETG2	20.0	129203	BARRETT2	138	1		1.00000	0.05320	-180.3	-45.6
28478	2558.0	5996.8	L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	3988.2
				C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1505				
				Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1		-0.76713	0.00000	-329.5	-329.5
29788	2622.3	6061.2	L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	4052.6
				C:SIN:250						1791				
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0
				Remove unit 3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch			
29789	2627.4	6066.2	L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	4057.6
				C:GEN:MLS3&OMS						1687				
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0
				Remove unit 3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch			
29790	2627.4	6066.2	L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	4057.6
				C:GEN:MILLST 3						1685				
				Remove unit 3	from bus	103563	MILL#3	24.0	1284.7	MW	dispatch			
29791	2675.8	6114.6	L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	4106.1
				C:GEN:SEABROOK						1686				
				Remove unit 1	from bus	102869	SBRK G1	25.0	1327.0	MW	dispatch			
29792	2675.8	6114.6	*L:	Interface	20		LI SUM				1.00000	1.00000	1430.3	4106.1
				C:GEN:SEAB&OMS						1688				
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0
				Remove unit 1	from bus	102869	SBRK G1	25.0	1327.0	MW	dispatch			

# **Attachment #11**

**Trial 10 Transfer Limit Analysis**

# New York State Transmission Assessment and Reliability Study (STARS)

## Calculation of Transfer Limits for Horizon Year with BTP Trial #10 Projects

January 31, 2012

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## 1. INTRODUCTION

This report describes the calculation of transfer limits for key interfaces in the New York State Transmission System for the Horizon Year with the Base Transmission Plan (BTP) Trial #10 projects (see Section 2 for details). The purpose of these calculations is to establish transfer limits for use in subsequent LOLE analysis.

Emergency thermal transfer limits were calculated for the following interfaces within the NYCA: Dysinger East, West Central, Volney East, Moses South, Total East, Central East, Central East + Fraser-Gilboa, Central East Group, F to G, UPNY-SENY, UPNY-ConEd, Millwood South Closed, I to J, Dunwoodie South Open, I to K and LIPA Import.

In addition, emergency voltage transfer limits were calculated for the Central East, Central East + Fraser-Gilboa and CE Group interfaces. These interfaces have traditionally been voltage limited, whereas the other interfaces have tended to be thermally limited. So for purposes of this study, voltage transfer limits were only calculated for the Central East related interfaces.

## 2. DESCRIPTION OF POWER FLOW MODEL

A power flow model representative of Horizon Year summer peak load conditions was used in this analysis. The model was developed from the BTP case described in reference [1].

The case includes the following Trial 10 facilities:

1. Oakdale-Fraser 345kV line #2
2. New Scotland-Leeds 345kV #3
3. Leeds-Pleasant Valley 345kV line #3
4. Rock Tavern-Ramapo 345kV line #2
5. National Grid 115kV transmission upgrades

**Table 2-1: Load Levels in Horizon Year Summer Peak Case**

Zone #	Zone Name	Load (MW)	Losses (MW)	Demand (MW)
1	West	2991	131	3123
2	Genessee	2267	98	2365
3	Central	3168	155	3323
4	North	947	24	971
5	Mohawk Valley	1393	206	1600
6	Capital	2726	142	2868
7	Hudson Valley	2874	74	2947
8	Millwood	731	49	780
9	Dunwoodie	1703	50	1753
10	NYC	14151	180	14331
11	Long Island	6659	97	6757
<b>Total:</b>		<b>39609</b>	<b>1207</b>	<b>40816</b>

Table 2-2 summarizes the base case interface flows in the NYCA system and between NYCA and neighboring systems. Table 2-3 summarizes the schedules for selected phase angle regulators (PARs) and other controlled devices in the base case.

**Table 2-2: Summary of Base Case Interface Flows**

<b>Interface</b>	<b>Flow (MW)</b>
Dysinger East	2324
West Central	1088
Moses South	2086
Volney East	2743
Total East Closed (Note 1)	6372
Central East	2385
Central East + Fraser-Gilboa	2570
CE Group	4084
F to G	3856
UPNY-SENY Open	5779
UPNY-ConEd Open	5432
Millwood South Closed (Note 1)	9539
Dunwoodie South Open	4757
I to J	3538
I to K (Y49/Y50)	1218
LI Import	2114

Notes:

1. Includes Hudson Transmission Project.

**Table 2-3: PAR Schedules in 2018 Summer Peak Case**

**(a) Controllable devices within NYCA**

<b>Device</b>	<b>MW</b>	<b>Direction</b>
Inghams (CD-E)	88	
Valley Stream PAR	122	Toward NYC
Lake Success PAR	165	Toward NYC
East Garden City PAR 1	298	Toward LIPA
East Garden City PAR 2	298	Toward LIPA
Sherman Creek PAR 1	200	Toward NYC
Sherman Creek PAR 2	200	Toward NYC
Parkchester PAR 1	245	Toward NYC
Parkchester PAR 2	245	Toward NYC
Dunwoodie North PAR 1	136	Toward NYC
Dunwoodie North PAR 2	136	Toward NYC
Dunwoodie South PAR 1	96	Toward NYC
Dunwoodie South PAR 2	96	Toward NYC

**(b) Inter-area controllable devices**

<b>Device</b>	<b>MW</b>	<b>Direction</b>
Ramapo PAR 1	502	Toward NY
Ramapo PAR 2	502	Toward NY
St. Lawrence PAR 1	150	Toward NY
St. Lawrence PAR 2	150	Toward NY
Sandbar PAR	75	Toward VT
Northport PAR	203	Toward NY
Farragut PAR 1	333	Toward NY
Farragut PAR 2	333	Toward NY
Goethals PAR	333	Toward NY
Linden VFT	245	Toward NY
Neptune HVdc	648	Toward NY
Cross Sound Cable HVdc	330	Toward NY
Chateauguay HVdc	832	Toward NY
Hudson Transmission Project (HTP)	660	Toward NY



### 3. CALCULATION OF EMERGENCY THERMAL TRANSFER LIMITS

Transfer limit analysis was performed to establish “short-term” emergency thermal transfer limits for thermally-constrained interfaces. The analysis was performed on the Horizon Year Trial 10 power flow case described in Section 2 of this report.

#### 3.1 Methodology

Emergency transfer limits were established using the Linear FCITC Calculation tool in the PSS<sup>TM</sup>MUST Program (version 10.2).

The emergency transfer limit is the transfer level at which:

- a branch is loaded at its normal rating (Rate A) for pre-contingency conditions, or
- a branch is loaded at its short-term emergency rating (Rate C) following a contingency

For the purposes of this analysis, transmission facilities rated 100 kV and above within NYCA (and tie-lines out of NYCA) were monitored. Engineering judgment was used to identify limiting transmission facilities. Generally, “direct tie” facilities or facilities in the vicinity of the interface being studied that became loaded at their Rate A or Rate C ratings as described above were flagged.

Interface definitions are shown in Appendix A.

The following types of contingencies were simulated based on the contingency files provided by NYISO. In addition to these contingencies, other contingencies provided by National Grid associated with wind generation in the North Country were simulated.

1. Outage of branches connected between buses with a base voltage of 100 kV and above (these included outages based on “automatic” N-1 contingency specification<sup>1</sup> in MUST and specific pre-defined branch outages)
2. Generator outages
3. Series element contingencies
4. Bus contingencies
5. HVdc contingencies

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<sup>1</sup> Automatic N-1 contingencies were not simulated in the Con Edison system.

Phase angle regulators maintain their scheduled power flow pre-contingency but are fixed at their corresponding pre-contingency angle post-contingency.

### 3.2 Results

Table 3-1 summarizes the emergency thermal transfer limits obtained from the MUST analysis (full MUST output for the various interfaces is provided in Appendix B). Limits are rounded down to the nearest 25 MW.

Limits for the upstate interfaces were calculated without making any adjustments to the base case. Limits for the downstate interfaces are sensitive to phase angle regulator settings in Con Edison and LIPA and were calculated as described below:

Interface limits for the UPNY-SENY, UPNY-ConEd Open, Millwood South Closed, Dunwoodie South Open and I-to-J interfaces were calculated based on the following assumptions (same assumptions as in reference [1]):

- Sherman Creek PAR1 and PAR2 are scheduled at 200 MW each into NYC.
- Parkchester PAR1 and PAR2 are scheduled at 245 MW each into NYC.
- Dunwoodie North PAR1 and PAR2 are scheduled at 115 MW each into NYC.
- Dunwoodie South PAR1 and PAR2 are scheduled at 120 and 115 MW respectively into NYC.

Limits for the “I to K” and “Long Island Import” interfaces were computed by making the following adjustments:

- Neptune HVDC is scheduled at 600 MW into LIPA.
- Cross Sound Cable is scheduled at 330 MW into LIPA.
- Northport PARs are scheduled at 450 MW into LIPA.
- Jamaica – Lake Success PAR is adjusted at 85 MW into LIPA.
- Jamaica – Valley Stream PAR is adjusted at 90 MW into LIPA.
- EGC PAR1 and PAR2 are scheduled at 318 MW each into LIPA.
- Resulting base case flow on Y50 (Dunwoodie – Shore Road 345 kV) is 640 MW.

Table 3-2 compares the transfer limits from the Trial 10 case against the corresponding limits from the BTP case (see reference [1]). In general, the following observations are made from Table 3-2.

1. The limits for the Volney East interface exhibited a 10% decrease going from the BTP case to the Trial 10 case (425 MW decrease). This can be explained as follows. Compared with the Trial 10 case, more power can be transferred across the Volney East interface in the BTP case before the limiting facility (Fraser - Coopers Corners 345 kV) becomes overloaded.

This is because the Marcy - Princetown - New Scotland 345 kV line in the BTP case provides a lower impedance path out of New Scotland than the existing Porter - Rotterdam 230 kV lines in the Trial 10 case.

2. The Moses South interface exhibited a decrease of 45% in the emergency thermal transfer limits. This is because the Moses-Marcy 345 kV lines in the BTP case are substituted with the existing Moses-Porter 230 kV lines in the Trial 10 case. It should be noted that the facility that determines the emergency transfer limit for this interface is: Marcy 765/345 AT1 for loss of AT2<sup>2</sup>. This is a valid limitation considering that the post-contingency loading on AT1 is 1756 MVA (which is less than the 1866 MVA required to trigger SPS action<sup>3</sup>).
3. The Central East interface exhibited a 15% decrease in the emergency thermal transfer limits. This is because the Marcy - Princetown - N. Scotland 345 kV line (BTP case) is substituted with the existing Porter-Rotterdam 230 kV lines (Trial 10 case).
4. The Central East+Fraser-Gilboa and CE Group interfaces exhibited a 400 MW decrease in emergency transfer limits for the same reasons as in item (1) above. The limiting facility is Fraser - Coopers Corners 345 kV.
5. Emergency transfer limits for the UPNY-ConEd Open and Millwood South Closed interfaces are similar between the two cases despite the fact that the Trial 10 case does not have the Pleasant Valley - Sprainbrook HVdc (900 MW) and Pleasant Valley - Ruland Road HVdc (600 MW) transmission facilities. This is because the base case flows on AC lines comprising the UPNY-ConEd and Millwood South interfaces are generally higher in the Trial 10 case than in the BTP case (flows that were previously on the HVdc are imposed on the AC network). Therefore, the emergency transfer limits are generally similar between the two cases.
6. The emergency transfer limit for the I-to-K interface is identical to the corresponding limit derived previously<sup>4</sup>.

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<sup>2</sup> For the purposes of this calculation, the ratings of the Marcy 765/345 kV transformers were updated as follows based on feedback received from NYPA.

Old ratings: AT1 (Normal/LTE/STE) : 1488 / 1654 / 1654 MVA; AT2: 1488 / 1793 / 2338 MVA  
New ratings: AT1 (Normal/LTE/STE): 1488 / 1650 / 1756 MVA; AT2: 1488 / 1650 / 1971 MVA

<sup>3</sup> Following the loss of Marcy AT2, the SPS trips Marcy AT1 provided the loading on each phase of AT1 exceeds 1409A at 765kV ( 1866MVA). The SPS also cross-trips the Chateauguay – Massena and Massena – Marcy 765 kV lines.

<sup>4</sup> The limiting transfer for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

7. The LIPA Import interface showed a 575 MW reduction in the Trial 10 case compared to the BTP case. This is because the Trial 10 case does not have the Pleasant Valley – Ruland Road HVdc line where as the BTP case does.

**Table 3-1: Emergency Thermal Transfer Limits for Horizon Year with Trial #10 Projects**

Interface	Horizon Year Trial 10 Su Peak Case	
Dysinger East	2975	1
West Central	1825	1
Volney East	3875	2
Moses South	2325	3
Total East (Closed)	7550	2
Central East (Note 1)	3550	4
Central East + Fraser-Gilboa (Note 1)	3325	2
CE Group (Note 1)	5250	2
F to G	5425	5
UPNY-SENY Open (Note 2)	6950	2
UPNY-ConEd Open	7400	6
Millwood South Closed (Note 3)	11250	6
I to J	4475	7
Dunwoodie South Open	5675	7
I to K	1275	8
LIPA Import	2900	8

Limiting Facility		Limiting Rating MVA	Contingency
1	Niagara-Rochester 345	1685	L/O Kintigh-Rochester 345
2	Fraser - Coopers Corners 345	1207	Pre-disturbance
3	Marcy 765/345 AT1	1756	L/O Marcy 765/345 AT2
4	Marcy - New Scotland 345	1792	L/O Edic - New Scotland 345
5	Leeds - Pleasant Valley #1 (existing)	1725	L/O Leeds - Pleasant Valley #3
6	Roseton-Fishkill 345	1935	Pre-disturbance
7	Dunwoodie-Mott Haven 71	783	Pre-disturbance
8	Dunwoodie-Shore Rd 345	653	Pre-disturbance

**Notes:**

1. Excludes Plattsburgh-Sandbar 115 kV line.
2. Excludes Jefferson-Ramapo 500 kV line.
3. Includes Hudson Transmission Project (HTP).
4. The limiting facility for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

**Table 3-2: Comparison of Horizon Year Emergency Thermal Transfer Limits  
Trial 10 Case vs. BTP Case**

Interface	Horizon Year Su Peak Case Trial 10	Horizon Year Su Peak Case With BTP	Difference	
			MW	%
Dysinger East	2975	2950	25	1%
West Central	1825	1775	50	3%
Volney East	3875	4300	-425	-10%
Moses South	2325	4200	-1875	-45%
Total East (Closed)	7550	7750	-200	-3%
Central East (Note 1)	3550	4175	-625	-15%
Central East + Fraser-Gilboa (Note 1)	3325	3725	-400	-11%
CE Group (Note 1)	5250	5650	-400	-7%
F to G	5425	5250	175	3%
UPNY-SENY Open (Note 2)	6950	7275	-325	-4%
UPNY-ConEd Open	7400	7525	-125	-2%
Millwood South Closed (Note 3)	11250	11275	-25	0%
I to J	4475	4475	0	0%
Dunwoodie South Open	5675	5700	-25	0%
I to K	1275	1275	0	0%
LIPA Import	2900	3475	-575	-17%

Notes:

1. Excludes Plattsburgh-Sandbar 115 kV line.
2. Excludes Jefferson-Ramapo 500 kV line.
3. Includes Hudson Transmission Project (HTP).
4. The limiting facility for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

## 4. CALCULATION OF EMERGENCY VOLTAGE TRANSFER LIMITS

Emergency voltage transfer limits were calculated on the Horizon Year power flow case described in Section 2 of this report.

### 4.1 Methodology

Emergency voltage transfer limits were calculated using the PV Analysis tool of PSS/E™ (version 30).

The limits were calculated by preparing a series of power flow cases with increasing MW transfers across the interfaces being studied and subjecting them to severe (voltage-wise) contingencies. The monitored buses were then reviewed for violations of post-contingency minimum voltage criteria and/or voltage collapse.

The testing followed NYISO practices and procedures discussed in Attachment E of the NYISO Transmission Expansion and Interconnection Manual [5]. MW transfers were increased until the point of voltage collapse was reached. In power flow analysis, this point is the highest transfer level for which a solution can be achieved. There is no solution beyond this transfer level because there are no more dispatchable reactive power resources available to support the transfer. Upon plotting the specific bus voltage (y-axis) against the pre-contingency MW transfer level (x-axis), the impending voltage collapse can be identified as the knee point on the PV curve. Based on the maximum sustainable pre-contingency MW transfer (i.e. the transfer level for which a solution can be achieved post contingency; with any further increases in power transfer rendering the system un-solvable due to reactive power deficiency), a reduced pre-contingency transfer level based on a 5% safety margin is determined. This reduced transfer is then compared against the pre-contingency MW transfer level which corresponds to a post-contingency minimum voltage at the monitored buses. In order to ensure that a voltage-based transfer limit is computed with a margin of safety, the lower of the two power transfers (i.e. 95% of that corresponding to voltage collapse point or that obtained by applying the relevant post-contingency low voltage limit) is chosen as the voltage-limited interface maximum transfer level.

The following assumptions were made for the analysis:

1. Phase angle regulators (“PARs”), switched shunts and LTC transformers are modeled as regulating pre-contingency and non-regulating post-contingency.
2. SVC and FACTS devices are set to near zero pre-contingency and allowed to operate full range post-contingency.

## 4.2 Results

Table 4-1 summarizes the emergency voltage transfer limits for the Central East, Central East + Fraser-Gilboa and CE Group interfaces (see column highlighted in yellow). For comparison purposes, corresponding limits derived earlier with the BTP projects (reference [1]) are also summarized. Limits are rounded down to the nearest 25 MW. The last two columns summarize the differences between the two sets of limits both in MW and as a percentage of the BTP limits. The Plattsburgh-Sandbar 115 kV line is not included in the interface definitions.

Figure 4-1 shows the PV curves for the Central East interface at the New Scotland 99 bus for various post-contingency conditions. For each contingency, the post-contingency voltage at New Scotland 99 bus is plotted against the pre-contingency MW flow on the interface. The most limiting contingency is tower contingency TWR 34/42 (CE18). Note from the Figure 4-1 that for this particular contingency, the nose of the curve is approx. 2950 MW. The pre-contingency transfer that corresponds to 95% of 2950 MW is 2800 MW. The post-contingency voltage at the 2800 MW transfer level is above the post-contingency low voltage limit (328 MW). Based on the above, the emergency voltage transfer limit for the Central East interface is 2800 MW.



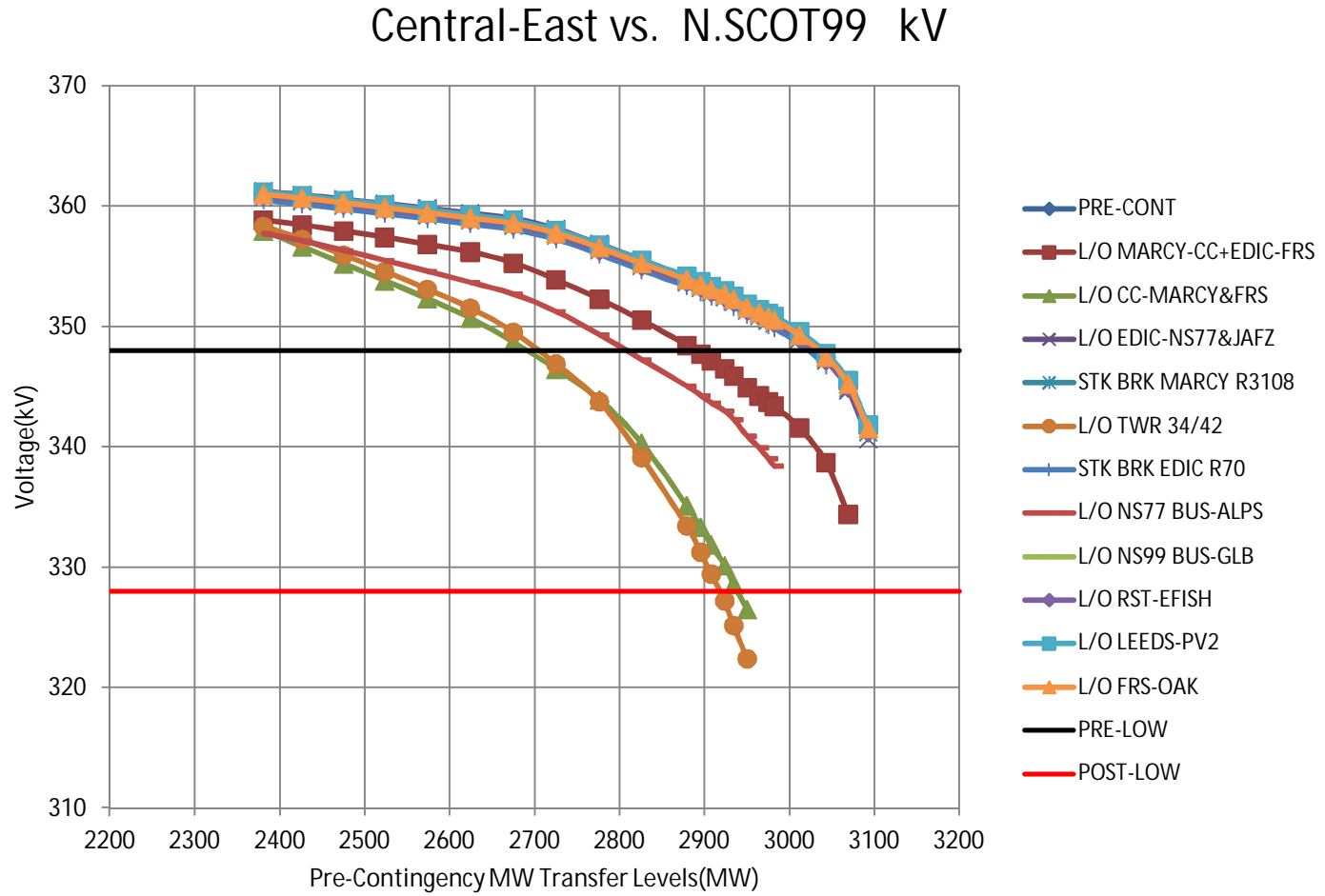
**Table 4-1: Emergency Voltage Transfer Limits**

Interfaces	Post-Contingency Low (A)		95% Voltage Collapse (B)			Pre-Contingency Low (C)		Horizon Year Limit with Trial 10 Min(A,B,C)	Horizon Year Limit with BTP		Diff with BTP Limits
	MW Flow	Limiting Facilities	MW Flow	Limiting Facility	Tip of Curve	MW Flow	Limiting Bus	MW Flow	MW Flow	Limiting Facility	(%)
CENTRAL EAST	2925	1	2803	2 & 3	2950	2879	Marcy 345	2800	3275	4	-14.5
CE+FRASER-GILBOA	3360	1	3233	2 & 3	3403	3296	Marcy 345	3225	3700	4	-12.8
CE-GROUP	5200	1	5000	2 & 3	5263	5118	Marcy 345	5000	5550	4	-9.9

Notes:

- 1) New Scotland 345kV bus voltage post-contingency low limit for L/O TWR 34/42 (CE18)
- 2) 95% PV nose for L/O Coopers Corners-Marcy 345kV and Coopers Corners-Fraser 345kV (CE08)
- 3) 95% PV nose for L/O TWR 34/42 (CE18)
- 4) Pre-contingency voltage limit at Marcy 345kV bus

Figure 4-1: PV Curves for Central East Interface Showing Post-Contingency Voltage Limit



## 5. CONSOLIDATION OF EMERGENCY THERMAL AND VOLTAGE TRANSFER LIMITS FOR CENTRAL EAST INTERFACE

Emergency thermal and emergency voltage transfer limits for the Central East, Central East + Fraser Gilboa and CE Group interfaces are consolidated and presented in Table 5-1. The more limiting of the two transfer limits is shown in the last column.

**Table 5-1: Consolidation of Central East Limits**

Interface	STARS Horizon Year Summer Peak Trial 10			
	Emergency Thermal Transfer Limit (MW)	Emergency Voltage Transfer Limit (MW)	Min (Thermal, Voltage)	
Central East	3550	2800	<b>2800</b>	(V)
Central East + Fraser-Gilboa	3325	3225	<b>3225</b>	(V)
CE Group	5250	5000	<b>5000</b>	(V)

(T) = Thermally-constrained

(V) = Voltage-constrained

## 6. REFERENCES

- [1] *NY STARS Calculation of Transfer Limits for Horizon Year with Base Transmission Plan Projects*, Prepared by ABB Inc., September 8, 2011.
- [2] *NY STARS Phase II Draft Report*, Prepared by ABB Inc., July 9, 2010.
- [3] *2010 Comprehensive Area Transmission Review of the New York State Bulk Power Transmission System (Study Year 2015)*, Draft Report issued by the New York Independent System Operator, March 17, 2011.
- [4] *Exceptions to NYSRC Reliability Rules - Revision 1*, May 11, 2010.
- [5] NYISO Transmission Expansion and Interconnection Manual, September 1999.

**APPENDIX A – INTERFACE DEFINITIONS**

## Interface Details

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
  1 DYSINGER EAS  -4208.0   4208.0   2327.0
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130754 KINTI345      345 149000 ROCH 345      345 1      887.9
130767 STOLE230      230 130764 MEYER230      230 1      0.0
130767 STOLE230      230 130770 SHLDN230      230 1      288.8
135452 LOCKPORT      115 135851 SHEL-113      115 1      102.0
135452 LOCKPORT      115 135865 NAKR-108      115 1      67.7
135452 LOCKPORT      115 135867 OAKFLDTP      115 1      0.0
135452 LOCKPORT      115 135875 TELRDTP1      115 1      95.0
135452 LOCKPORT      115 135876 TELRDTP1      115 1      89.2
147834 NIAG 345      345 149000 ROCH 345      345 1      796.4

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
  2 WEST CENTRAL  -4532.2   4532.2   1091.7
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130767 STOLE230      230 130764 MEYER230      230 1      0.0
130767 STOLE230      230 130770 SHLDN230      230 1      288.8
149122 C708 LD      34.5 130926 WOLCOT34      34.5 1      0.0
149026 QUAKER      115 131242 MACDN115      115 1      45.4
149004 S121 B#2      115 131243 SLEIG115      115 1      98.5
149005 CLYDE199      115 131243 SLEIG115      115 1      -48.8
131251 BROWNS C      34.5 131252 CLYDE 34      34.5 1      0.0
135260 ANDOVER1      115 131344 PALMT115      115 1      53.0
149010 STA 162      115 131345 S.PER115      115 1      -3.1
135861 MORTIMER      115 135860 LAWLER-1      115 1      99.9
135861 MORTIMER      115 136213 LAWLER-2      115 1      73.4
149001 PANNELL3      345 136150 CLAY      345 1      234.1
149001 PANNELL3      345 136150 CLAY      345 2      234.8
149074 STA127      34.5 136167 HOOKRD      115 1      -30.7
149005 CLYDE199      115 136183 CLTNCORN      115 1      25.2
149075 FARMNGTN      34.5 136194 FARMGTN1      115 1      -31.2
149025 PANNELLI      115 136197 FRMGTN-4      115 1      127.5
149141 FRMGNT2      34.5 136197 FRMGTN-4      115 1      -45.3
149146 S168      12.0 136197 FRMGTN-4      115 1      -6.2
149118 CLYDE 34      34.5 149005 CLYDE199      115 1      -23.5

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
  3 VOLNEY EAST-  -10047.0  10047.0   2744.9
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130755 OAKDL345      345 130753 FRASR345      345 1      309.4
130755 OAKDL345      345 130753 FRASR345      345 2      309.2
130838 OAKDL115      115 130794 DELHI115      115 1      33.3
130863 WILET115      115 130796 E.NOR115      115 1      86.8
130819 KATEL115      115 130817 JENN 115      115 1      0.0
136150 CLAY      345 137200 EDIC      345 1      435.7
136150 CLAY      345 137200 EDIC      345 2      437.0
136156 VOLNEY      345 147833 MARCY T1      345 1      546.2
136216 LTHSE HL      115 136755 BLACK RV      115 1      -14.2
136216 LTHSE HL      115 136768 E WTRTWN      115 1      -9.5

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136244	TEALL	115	137233	ONEIDA	115	1	32.9
136250	WHITMAN	115	137233	ONEIDA	115	1	0.0
136529	OMEGAWIR	34.5	137360	CAMDEN	34.5	1	-3.2
147830	JA FITZP	345	137200	EDIC	345	1	584.8
137219	W HILL_T	115	137233	ONEIDA	115	1	-5.1
137234	PETRBORO	115	137233	ONEIDA	115	1	1.6

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	
	Import	Export	InitFlow
4 MOSES SOUTH-	-5368.0	5368.0	2086.9

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
136750	ALCOA-NM	115	136760	BRADY	115	1	31.0
136767	DENNISON	115	136752	ANDRWS-4	115	1	20.2
136767	DENNISON	115	136782	LWRNCE-B	115	1	21.9
136791	NICHOLVL	115	136783	MALONE	115	1	0.0
147828	MASS 765	765	147827	MARCY765	765	1	1679.0
147840	MOSES W	230	147835	ADRON B1	230	1	167.4
147840	MOSES W	230	147836	ADRON B2	230	1	167.4

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	
	Import	Export	InitFlow
5 TOTAL EAST	-15198.1	15198.1	6372.0

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
91	JEFFERSN	500	126250	RAMAPO 5	500	1	1004.4
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.6
4996	LINDEN	230	126321	GOETHALS	230	1	333.1
5028	WALDWICK	345	146752	SMAHWAH1	345	1	-452.3
5028	WALDWICK	345	146753	SMAHWAH2	345	1	-545.6
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.6
5473	LINVFT4	345	126265	COGNTECH	345	1	243.9
234603	HCOR138	138	146761	BURNS138	138	1	0.0
234604	SMAH138	138	146752	SMAHWAH1	345	1	-128.9
234604	SMAH138	138	146769	RAMP138	138	1	-102.4
234608	HCOR69	69.0	146812	WNYA69	69.0	1	-24.8
234609	MONTVALE	69.0	146777	BLUHILL	69.0	1	6.9
234609	MONTVALE	69.0	146777	BLUHILL	69.0	2	6.9
234609	MONTVALE	69.0	146850	L491T	69.0	1	-38.5
234610	SMAH69	69.0	146790	HILB69	69.0	1	-63.8
234611	HCOR34	34.5	146826	PEARL34	34.5	1	12.2
234614	CRESSKIL	69.0	146807	SPARKILL	69.0	1	-12.6
147852	PLAT T#3	115	100511	GRAND IS	115	1	84.1
130750	COOPC345	345	125001	ROCK TAV	345	2	695.6
996304	W49_INV	416	126304	W 49 ST	345	1	660.0
128842	NEPTCONV	345	128847	NWBRG	345	1	648.1
130750	COOPC345	345	146754	MDTN TAP	345	1	814.7
130753	FRASR345	345	147831	GILB 345	345	1	181.7
130797	E.SPR115	115	137886	INGHAM-E	115	1	25.4
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0
137200	EDIC	345	137452	N.SCOT77	345	1	800.2
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	290.7
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	282.7
137228	INGMS-CD	115	137886	INGHAM-E	115	1	87.6
147833	MARCY T1	345	137453	N.SCOT99	345	1	897.5

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	
	Import	Export	InitFlow

/\* HTP

6 CENTRAL EAST -4393.8 4393.8 2386.7

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
130797	E.SPR115	115	137886	INGHAM-E	115	1	25.7
137200	EDIC	345	137452	N.SCOT77	345	1	800.7
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	290.9
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	282.8
137228	INGMS-CD	115	137302	INGHAMS	46.0	1	1.0
137228	INGMS-CD	115	137886	INGHAM-E	115	1	87.6
147833	MARCY T1	345	137453	N.SCOT99	345	1	898.1

\*\*\*\* Interface \*\*\*\*

Limit	Limit	
Import	Export	InitFlow
-5821.8	5821.8	2572.2

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
130753	FRASR345	345	147831	GILB 345	345	1	185.5
130797	E.SPR115	115	137886	INGHAM-E	115	1	25.7
137200	EDIC	345	137452	N.SCOT77	345	1	800.7
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	290.9
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	282.8
137228	INGMS-CD	115	137302	INGHAMS	46.0	1	1.0
137228	INGMS-CD	115	137886	INGHAM-E	115	1	87.6
147833	MARCY T1	345	137453	N.SCOT99	345	1	898.1

\*\*\*\* Interface \*\*\*\*

Limit	Limit	
Import	Export	InitFlow
-8839.8	8839.8	4086.6

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
130750	COOPC345	345	125001	ROCK TAV	345	2	697.6
130750	COOPC345	345	146754	MDTN TAP	345	1	816.7
130753	FRASR345	345	147831	GILB 345	345	1	185.5
130797	E.SPR115	115	137886	INGHAM-E	115	1	25.7
137200	EDIC	345	137452	N.SCOT77	345	1	800.7
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	290.9
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	282.8
137228	INGMS-CD	115	137302	INGHAMS	46.0	1	1.0
137228	INGMS-CD	115	137886	INGHAM-E	115	1	87.6
147833	MARCY T1	345	137453	N.SCOT99	345	1	898.1

\*\*\*\* Interface \*\*\*\*

Limit	Limit	
Import	Export	InitFlow
-6453.0	6453.0	3857.7

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
137451	LEEDS 3	345	125000	HURLEY 3	345	1	804.1
137507	BOC 2T	115	125040	N.CAT. 1	115	1	0.0
137507	BOC 2T	115	125040	N.CAT. 1	115	2	79.0
137480	ADM	115	125043	PL.VAL 1	115	1	41.1
137489	BL STR E	115	125043	PL.VAL 1	115	1	40.4
137492	BLUES-8	115	125043	PL.VAL 1	115	1	44.4
137451	LEEDS 3	345	126294	PLTVLLEY	345	1	979.3
137451	LEEDS 3	345	126294	PLTVLLEY	345	2	945.5
137455	ATHENS	345	126294	PLTVLLEY	345	1	923.9



```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
11 UPNY SENY-OP  -10654.1  10654.1  5851.2
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
103117 CTNY398      345 126294 PLTVLLEY  345 1    414.3
137451 LEEDS 3      345 125000 HURLEY 3    345 1    812.6
130750 COOPC345     345 125001 ROCK TAV  345 2    709.0
137507 BOC 2T       115 125040 N.CAT. 1    115 1     0.0
137507 BOC 2T       115 125040 N.CAT. 1    115 2    79.8
137480 ADM          115 125043 PL.VAL 1    115 1    41.9
137489 BL STR E     115 125043 PL.VAL 1    115 1    41.3
137492 BLUES-8      115 125043 PL.VAL 1    115 1    45.0
137451 LEEDS 3      345 126294 PLTVLLEY  345 1    989.9
137451 LEEDS 3      345 126294 PLTVLLEY  345 2    955.5
137455 ATHENS       345 126294 PLTVLLEY  345 1    933.4
130750 COOPC345     345 146754 MDTN TAP  345 1    828.6
130862 W.WDB115     115 131560 W.WDBR69  69.0 1     0.0

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
12 UPNY-CONED-0  -13455.0  13455.0  5500.1
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
125002 ROSETON      345 126281 FISHKILL  345 1   1064.3
126281 FISHKILL     345 125022 E FISH I   115 1    152.2
125026 FISHKILL     115 131112 SYLVN115 115 1    113.9
126297 RAMAPO       345 126262 BUCHANAN N  345 1    347.0
126290 LADENTWN     345 126263 BUCHANAN S  345 1    703.3
126294 PLTVLLEY     345 126281 FISHKILL  345 1    607.9
126294 PLTVLLEY     345 126281 FISHKILL  345 2    607.9
126294 PLTVLLEY     345 126291 MILLWOOD  345 1    937.1
126294 PLTVLLEY     345 126306 WOOD B   345 1    966.3

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```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
13 MILW-SOUTH-C  -16396.0  16396.0  9607.7
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
4989 HUDSON1        345 126278 B3402 PAR1  345 1    332.7
4996 LINDEN         230 126321 GOETHALS  230 1    333.3
5039 HUDSON2        345 126279 C3403 PAR2  345 1    332.7
5473 LINVFT4        345 126265 COGNTECH  345 1    243.9
103166 NORHR138     138 129343 NRTHPT P   138 1     67.8
103166 NORHR138     138 129343 NRTHPT P   138 2     67.8
103166 NORHR138     138 129343 NRTHPT P   138 3     67.8
126262 BUCHANAN N   345 126267 E VIEW 2N  345 1   1198.2
126291 MILLWOOD     345 126268 E VIEW 1N  345 1   1154.2
126291 MILLWOOD     345 126269 E VIEW 2S  345 1   1096.4
126291 MILLWOOD     345 126270 E VIEW 1S  345 1   1096.4
126281 FISHKILL     345 126292 PL VILLE  345 1   1007.0
126305 WOOD A       345 126293 PL VILLW  345 1    971.9
996304 W49_INV      416 126304 W 49 ST  345 1    660.0 /* HTP
128842 NEPTCONV     345 128847 NWBRG   345 1    648.1
128880 SHMHVDCL     192 129459 SHOREHAM  138 1    329.5

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
14 DUNWOODIE-SO  -6344.0   6344.0   4826.2

```

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126266	DUNWODIE	345	126600 REAC71	345 SR	561.3
126266	DUNWODIE	345	126601 REAC72	345 SR	557.4
126266	DUNWODIE	345	128835 SHORE RD	345 1	620.1
126298	SPRBROOK	345	126301 TREMONT	345 1	489.9
126298	SPRBROOK	345	126847 ACADEMY	345 1	401.9
126299	REACBUS	345	147857 DVNPT NK	345 1	598.1
126517	REACM51	345	126304 W 49 ST	345 1	566.9
126518	REACM52	345	126304 W 49 ST	345 2	566.9
126370	DUN NO1R	138	126483 S CREEK	138 1	114.6
126371	DUN NO2R	138	126483 S CREEK	138 1	114.9
126374	DUN SO1R	138	126385 E179 ST	138 1	234.3

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	InitFlow
	Import	Export	
16 I-TO-J	-4949.0	4949.0	3608.0

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126298	SPRBROOK	345	126301 TREMONT	345 1	489.9
126298	SPRBROOK	345	126847 ACADEMY	345 1	401.9
126517	REACM51	345	126304 W 49 ST	345 1	566.9
126518	REACM52	345	126304 W 49 ST	345 2	566.9
126370	DUN NO1R	138	126483 S CREEK	138 1	114.6
126371	DUN NO2R	138	126483 S CREEK	138 1	114.9
126374	DUN SO1R	138	126385 E179 ST	138 1	234.3
126600	REAC71	345	126641 MOTT HAVEN	345 3	561.3
126601	REAC72	345	126641 MOTT HAVEN	345 4	557.4

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	InitFlow
	Import	Export	
15 I-to-K	-1421.0	1421.0	1278.5

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
126266	DUNWODIE	345	128835 SHORE RD	345 1	639.9
147857	DNVPT NK	345	128830 HMP HRBR	345 1	638.5

\*\*\*\* Interface \*\*\*\*

	Limit	Limit	InitFlow
	Import	Export	
19 LIPA IMPORT	-2776.0	2776.0	2900.1

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
103166	NORHR138	138	129343 NRTHPT P	138 1	150.5
103166	NORHR138	138	129343 NRTHPT P	138 2	150.5
103166	NORHR138	138	129343 NRTHPT P	138 3	150.5
126266	DUNWODIE	345	128835 SHORE RD	345 1	639.9
126455	JAMAICA	138	129235 V STRM P	138 1	85.4
126455	JAMAICA	138	129249 L SUCSPH	138 1	90.3
147857	DNVPT NK	345	128830 HMP HRBR	345 1	638.5
128842	NEPTCONV	345	128847 NWBRG	345 1	660.2
128880	SHMHVDCL	192	129459 SHOREHAM	138 1	334.2

**APPENDIX B – MUST OUTPUT**

DysingerEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:47  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 16820  
 First violation - 577.4 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 16820 violations

Interface-1 Interface 1 DYSINGER EAS Init.Flow= 2326.99 TDF= 0.6545

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment
			C: Contingency description	Flow	Rating	LODF	Init	Final	
1	577.4	2704.9	L: 135872 SOUR-111 115 135873 SWDN-111 115 1 C:147834 NIAG 345 345 149000 ROCH 345 345 1 1320 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	136.4	159.0	0.03920	0.02597	101.1 116.1	Low TDF
2	663.6	2761.3	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1	330.5	383.0	0.07905	0.06471	265.6 308.5	
3	669.9	2765.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	329.9	383.0	0.07927	-0.11471 -0.12506 0.06471	-566.4 -649.4 265.6 308.9	
4	677.5	2770.4	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130751 CNDGUA_T 230 130761 AVOCA230 230 1 263 Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1	-137.8	-159.0	-0.03132	-0.02246	-101.3 -116.6	
5	678.2	2770.9	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:SER:MEYER_HILLSD_68 1707 Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1 Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1	-137.8	-159.0	-0.03132	-0.02246	-101.3 -116.6	
6	679.8	2771.9	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130761 AVOCA230 230 131154 STONY RIDGE 230 1 283 Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1	-137.7	-159.0	-0.03132	-0.02246	-101.3 -116.6	
7	687.9	2777.3	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HC-WC_30&W-F_171 1704 Open 135277 FALCONER 115 200579 WARREN 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	328.8	383.0	0.07883	0.06471	265.6 309.6 265.6 310.1	
8	690.6	2779.0	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130763 HILSD230 230 131154 STONY RIDGE 230 1 287 Open 130763 HILSD230 230 131154 STONY RIDGE 230 1	-137.4	-159.0	-0.03132	-0.02246	-101.3 -116.9	
9	694.9	2781.8	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1	-328.1	-383.0	-0.07905	-0.06471	-263.1 -307.8 -263.1 -308.1	
10	701.0	2785.9	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1	-327.4	-383.0	-0.07927	-0.06471	-263.1 -308.5	

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			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1		0.11487	-0.12506	-566.4	-654.1			
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1		-0.00931	0.00000	-44.6	-44.6			
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
11	707.4	2790.0	L:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	327.1	383.0	0.07905	0.06471	265.6	311.3		
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1								
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1				0.11471	0.12506	536.2	624.7	
12	719.3	2797.8	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-326.3	-383.0	-0.07883	-0.06471	-263.1	-309.6		
			C:	SER:HC-WC_30&W-F_171														1704
			Open	135277	FALCONER	115	200579	WARREN	115	1				-0.04708	-0.00287	-20.5	-22.6	
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				0.11404	-0.12506	-566.4	-656.4	
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.00954	0.00000	-44.6	-44.6	
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
13	728.3	2803.7	L:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	325.4	383.0	0.07905	0.06471	265.6	312.7		
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1								
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.11471	-0.12506	-521.8	-612.9	
14	738.7	2810.5	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-324.6	-383.0	-0.07905	-0.06471	-263.1	-310.9		
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1								
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1				-0.11471	0.12506	536.2	628.6	
15	751.1	2818.6	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	122.3	153.0	0.04090	0.02709	85.5	105.8		
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1								1320
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				0.04623	0.29869	796.4	1020.8	
16	755.1	2821.3	L:	135872	SOUR-111	115	135873	SWDN-111	115	1	133.7	159.0	0.03346	0.02597	101.1	120.7		
			C:	130754	KINTI345	345	149000	ROCH 345	345	1								272
			Open	130754	KINTI345	345	149000	ROCH 345	345	1				0.03678	0.20372	887.9	1041.7	
17	759.5	2824.1	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-323.0	-383.0	-0.07905	-0.06471	-263.1	-312.2		
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1								1451
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				0.11471	-0.12506	-521.8	-616.8	
18	776.8	2835.5	L:	130815	HINMN115	115	131611	HARIS115	115	1	-274.4	-306.0	-0.04064	-0.02587	-235.1	-255.2		
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1								1320
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				-0.04944	0.29869	796.4	1028.5	
19	782.2	2838.9	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	247.3	280.0	0.04183	0.02663	206.7	227.6		
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1								1320
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				0.05090	0.29869	796.4	1030.1	
20	809.4	2856.8	L:	130815	HINMN115	115	131611	HARIS115	115	1	-279.0	-306.0	-0.03338	-0.02587	-235.1	-256.0		
			C:	130766	ROBIN230	230	130767	STOLE230	230	1								291
			Open	130766	ROBIN230	230	130767	STOLE230	230	1				-0.26125	0.02875	168.1	191.4	
21	815.8	2861.0	L:	130815	HINMN115	115	135452	LOCKPORT	115	1	252.0	280.0	0.03436	0.02663	206.7	228.5		
			C:	130766	ROBIN230	230	130767	STOLE230	230	1								291
			Open	130766	ROBIN230	230	130767	STOLE230	230	1				0.26895	0.02875	168.1	191.6	
22	919.2	2928.6	L:	130774	BATH 115	115	131347	HOWARD	115	1	-130.2	-159.0	-0.03132	-0.02246	-101.3	-122.0		
			C:	130751	CNDGUA_T	230	130764	MEYER230	230	1								264
			Open	130751	CNDGUA_T	230	130764	MEYER230	230	1				0.13692	-0.06471	-210.8	-270.3	
23	923.2	2931.3	L:	135859	LAPPINS1	115	135866	NLEROYTA	115	1	132.7	173.0	0.04367	0.02892	93.4	120.1		
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1								1320
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				0.04936	0.29869	796.4	1072.2	
24	937.2	2940.5	L:	130761	AVOCA230	230	131154	STONY RIDGE	230	1	330.0	383.0	0.05654	0.06471	265.6	326.2		
			C:	BUS:WATERCURE_345														1735
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				-0.04490	-0.12506	-566.4	-683.6	
			Open	130757	WATRC345	345	130768	WATRC230	230	1				0.15973	-0.08631	244.2	163.3	
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.03651	0.00000	0.0	0.0	
25	958.6	2954.5	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	119.5	153.0	0.03491	0.02709	85.5	111.4		
			C:	130754	KINTI345	345	149000	ROCH 345	345	1								272
			Open	130754	KINTI345	345	149000	ROCH 345	345	1				0.03837	0.20372	887.9	1083.2	
26	981.0	2969.1	L:	130763	HILSD230	230	131154	STONY RIDGE	230	1	-327.5	-383.0	-0.05654	-0.06471	-263.1	-326.6		
			C:	BUS:WATERCURE_345														1735
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				0.04490	-0.12506	-566.4	-689.1	
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.15973	-0.08631	244.2	159.6	
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.03651	0.00000	0.0	0.0	
27	981.3	2969.3	L:	131342	BENET115	115	131347	HOWARD	115	1	128.3	159.0	0.03132	0.02246	91.8	113.9		
			C:	130751	CNDGUA_T	230	130761	AVOCA230	230	1								263

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			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.13692	0.06471	266.1	329.6	
28	982.0	2969.7	L: 131342 BENET115	115	131347	HOWARD	115	1	128.2	159.0	0.03132	0.02246	91.8	113.9
			C:SER-MEYER_HILLSD_68					1707						
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1		0.13692	0.06471	265.6	329.1	
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1		0.09584	0.00000	0.5	0.5	
29	983.6	2970.8	L: 131342 BENET115	115	131347	HOWARD	115	1	128.2	159.0	0.03132	0.02246	91.8	113.9
			C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	283					
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1		0.13692	0.06471	265.6	329.2	
30	994.4	2977.9	L: 131342 BENET115	115	131347	HOWARD	115	1	127.9	159.0	0.03132	0.02246	91.8	114.2
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	287					
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1		-0.13692	-0.06471	-263.1	-327.4	
31	1008.1	2986.8	L: 130815 HINMN115	115	131611	HARIS115	115	1	-271.5	-306.0	-0.03423	-0.02587	-235.1	-261.1
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		-0.04104	0.20372	887.9	1093.2	
32	1014.4	2990.9	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	244.3	280.0	0.03524	0.02663	206.7	233.8
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.04225	0.20372	887.9	1094.5	
33	1016.3	2992.2	L: 147834 NIAG 345	345	149000	ROCH 345	345	1	1270.8	1685.0	0.40753	0.29869	796.4	1100.0
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.53428	0.20372	887.9	1094.9	
34	1114.7	3056.6	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-333.4	-430.0	-0.08663			
			Base Case											
35	1119.5	3059.7	L: 130750 COOPC345	345	130753	FRASR345	345	1	-945.0	-1207.0	-0.23402			
			Base Case											
36	1160.3	3086.5	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	129.8	173.0	0.03727	0.02892	93.4	126.9
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.04097	0.20372	887.9	1124.2	
37	1223.0	3127.5	L: 131342 BENET115	115	131347	HOWARD	115	1	120.7	159.0	0.03132	0.02246	91.8	119.3
			C:130751 CNDGUA_T	230	130764	MEYER230	230	1	264					
			Open 130751 CNDGUA_T	230	130764	MEYER230	230	1		-0.13692	-0.06471	-210.8	-289.9	
38	1229.6	3131.8	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	119.8	159.0	0.03190	0.02597	101.1	133.0
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	748					
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1		0.21887	0.02709	85.5	118.8	
39	1233.8	3134.5	L: 135861 MORTIMER	115	136213	LAWLER-2	115	1	118.6	159.0	0.03276	0.02275	73.4	101.5
			C:135860 LAWLER-1	115	135861	MORTIMER	115	1	764					
			Open 135860 LAWLER-1	115	135861	MORTIMER	115	1		-0.45214	-0.02216	-99.9	-127.2	
40	1236.1	3136.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	299.4	383.0	0.06763	0.06471	265.6	345.6
			C:130755 OAKDL345	345	131128	LAPEER	345	1	276					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		-0.06204	-0.04712	-545.4	-603.6	
41	1241.9	3139.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	294.6	383.0	0.07115	0.06471	265.6	345.9
			C:130774 BATH 115	115	131347	HOWARD	115	1	298					
			Open 130774 BATH 115	115	131347	HOWARD	115	1		-0.28685	-0.02246	-101.3	-129.2	
42	1250.9	3145.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	321.6	430.0	0.08663			
			Base Case											
43	1258.0	3150.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	300.0	383.0	0.06601	0.06471	265.6	347.0
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	461					
			Open 131128 LAPEER	345	136153	LAFAYTTE	345	1		-0.05472	-0.02382	-628.6	-658.5	
44	1267.4	3156.6	*L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	289.6	383.0	0.07371	0.06471	265.6	347.6
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.03014	0.29869	796.4	1175.0	
45	1272.6	3160.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-296.9	-383.0	-0.06763	-0.06471	-263.1	-345.4
			C:130755 OAKDL345	345	131128	LAPEER	345	1	276					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1		0.06204	-0.04712	-545.4	-605.3	
46	1276.6	3162.6	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-292.2	-383.0	-0.07115	-0.06471	-263.1	-345.7
			C:130774 BATH 115	115	131347	HOWARD	115	1	298					
			Open 130774 BATH 115	115	131347	HOWARD	115	1		0.28685	-0.02246	-101.3	-130.0	
48	1283.6	3167.2	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-116.0	-173.0	-0.04440	-0.02941	-76.0	-113.8
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.05019	0.29869	796.4	1179.8	
49	1293.5	3173.6	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	134.0	180.0	0.03556	0.02355	102.0	132.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04019	0.29869	796.4	1182.8	
50	1295.4	3174.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-297.5	-383.0	-0.06601	-0.06471	-263.1	-346.9
			C:131128 LAPEER	345	136153	LAFAYTTE	345	1	461					

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		0.05472	-0.02382	-628.6	-659.4	
51	1301.0	3178.5*L:	130763 HILSD230	230	131154 STONY RIDGE	230	1	-287.1	-383.0	-0.07371	-0.06471	-263.1	-347.3
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.03014	0.29869	796.4	1185.0	
53	1331.4	3198.5 L:	135861 MORTIMER	115	135873 SWDN-111	115	1	-98.3	-153.0	-0.04107	-0.02720	-61.3	-97.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.04642	0.29869	796.4	1194.1	
54	1332.0	3198.9 L:	130815 HINMN115	115	131611 HARI5115	115	1	-262.2	-306.0	-0.03291	-0.02587	-235.1	-269.5
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288	
			Open 130764 MEYER230	230	134750 DAIRY230	230	1		0.08130	-0.08663	-333.4	-448.8	
55	1336.5	3201.8 L:	130754 KINTI345	345	149000 ROCH 345	345	1	1237.5	1685.0	0.33483	0.20372	887.9	1160.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.43897	0.29869	796.4	1195.7	
58	1338.6	3203.2 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	234.6	280.0	0.03388	0.02663	206.7	242.4
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288	
			Open 130764 MEYER230	230	134750 DAIRY230	230	1		-0.08369	-0.08663	-333.4	-449.4	
59	1361.2	3217.9 L:	130815 HINMN115	115	131611 HARI5115	115	1	-261.2	-306.0	-0.03291	-0.02587	-235.1	-270.3
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460	
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1		-0.08130	0.08663	321.6	439.6	
61	1367.7	3222.2 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	233.7	280.0	0.03388	0.02663	206.7	243.2
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460	
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1		0.08369	0.08663	321.6	440.1	
63	1374.1	3226.4 L:	95976 STONYCRK	230	131122 WTHRS230	230	1	311.0	430.0	0.08663			
			Base Case										
66	1387.5	3235.2 L:	130815 HINMN115	115	131611 HARI5115	115	1	-260.3	-306.0	-0.03291	-0.02587	-235.1	-270.9
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42	
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1		-0.08130	0.08663	311.0	431.2	
67	1394.1	3239.5 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	232.8	280.0	0.03388	0.02663	206.7	243.9
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42	
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1		0.08369	0.08663	311.0	431.7	
71	1426.2	3260.5 L:	130815 HINMN115	115	131611 HARI5115	115	1	-259.1	-306.0	-0.03291	-0.02587	-235.1	-271.9
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1					41	
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1		0.08130	-0.08663	-295.3	-418.9	
72	1427.4	3261.3 L:	135850 SOUR-114	115	135861 MORTIMER	115	1	106.6	153.0	0.03251	0.02709	85.5	124.1
			C:135872 SOUR-111	115	135873 SWDN-111	115	1					782	
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1		0.20897	0.02597	101.1	138.1	
74	1432.8	3264.8 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	231.5	280.0	0.03388	0.02663	206.7	244.9
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1					41	
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1		-0.08369	-0.08663	-295.3	-419.4	
75	1442.3	3271.1 L:	130815 HINMN115	115	131611 HARI5115	115	1	-258.5	-306.0	-0.03291	-0.02587	-235.1	-272.4
			C:130767 STOLE230	230	130770 SHLDN230	230	1					293	
			Open 130767 STOLE230	230	130770 SHLDN230	230	1		-0.08130	0.08663	288.8	413.7	
76	1445.1	3272.9 L:	130764 MEYER230	230	134750 DAIRY230	230	1	-386.2	-540.0	-0.10642	-0.08663	-333.4	-458.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.06626	0.29869	796.4	1228.1	
78	1448.9	3275.3 L:	130815 HINMN115	115	135452 LOCKPORT	115	1	230.9	280.0	0.03388	0.02663	206.7	245.3
			C:130767 STOLE230	230	130770 SHLDN230	230	1					293	
			Open 130767 STOLE230	230	130770 SHLDN230	230	1		0.08369	0.08663	288.8	414.3	
81	1460.2	3282.8 L:	135860 LAWLER-1	115	135861 MORTIMER	115	1	-136.2	-185.0	-0.03342	-0.02216	-99.9	-132.2
			C:135861 MORTIMER	115	136213 LAWLER-2	115	1					769	
			Open 135861 MORTIMER	115	136213 LAWLER-2	115	1		-0.49489	0.02275	73.4	106.6	
84	1470.2	3289.3 L:	135851 SHEL-113	115	135874 SWDN-113	115	1	126.8	180.0	0.03618	0.02397	94.2	129.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320	
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.04090	0.29869	796.4	1235.6	
89	1495.8	3306.0 L:	130764 MEYER230	230	134750 DAIRY230	230	1	-389.8	-540.0	-0.10041	-0.08663	-333.4	-463.0
			C:SER:HCWC/NWES									1710	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.02617	-0.03526	56.7	4.0	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.10276	-0.12506	-566.4	-753.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00752	0.00000	-44.6	-44.6	
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA					
90	1497.0	3306.9 L:	130764 MEYER230	230	134750 DAIRY230	230	1	-391.2	-540.0	-0.09939	-0.08663	-333.4	-463.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					280	

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10201	-0.12506	-566.4	-753.6
91	1508.1	3314.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-566.4	-755.0	-0.12506		
			Base Case										
92	1512.0	3316.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-390.0	-540.0	-0.09924	-0.08663	-333.4 -464.4
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.03207	-0.00287	-20.5 -24.9
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			0.10156	-0.12506	-566.4 -755.5
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			-0.00768	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
99	1528.0	3327.2	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-388.1	-540.0	-0.09939	-0.08663	-333.4 -465.8
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			-0.10201	0.12506	536.2 727.3
104	1542.8	3336.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-386.7	-540.0	-0.09939	-0.08663	-333.4 -467.1
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.10201	-0.12506	-521.8 -714.8
107	1554.9	3344.8	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-295.3	-430.0	-0.08663		
			Base Case										
108	1556.0	3345.4	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	374.4	540.0	0.10642	0.08663	321.6 456.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.06626	0.29869	796.4 1261.2
119	1582.5	3362.8	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-113.0	-173.0	-0.03790	-0.02941	-76.0 -122.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.04166	0.20372	887.9 1210.3
124	1594.1	3370.4	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	131.6	180.0	0.03035	0.02355	102.0 139.5
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03336	0.20372	887.9 1212.6
129	1612.2	3382.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.09784	-0.08663	-333.4 -473.1
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.05500	0.20372	887.9 1216.3
130	1613.2	3382.9	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	378.0	540.0	0.10041	0.08663	321.6 461.4
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.02617	-0.03526	56.7 -0.2
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10276	-0.12506	-566.4 -768.2
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00752	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
132	1615.7	3384.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	379.4	540.0	0.09939	0.08663	321.6 461.6
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10201	-0.12506	-566.4 -768.5
137	1630.1	3394.0	L: 130767 STOLE230	230	130770	SHLDN230	230	1	288.8	430.0	0.08663		
			Base Case										
139	1630.8	3394.4	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	378.2	540.0	0.09924	0.08663	321.6 462.9
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.03207	-0.00287	-20.5 -25.2
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10156	-0.12506	-566.4 -770.4
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00768	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
141	1632.0	3395.2	L: 130757 WATRC345	345	130768	WATRC230	230	1	484.1	600.0	0.07104	-0.08631	244.2 103.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.74443	-0.21137	-322.2 -667.1
143	1634.2	3396.7	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1236.9	-1703.0	-0.28524	-0.23402	-945.0 -1327.5
			C:130750 COOPC345	345	147833	MARCY T1	345	1	262				
			Open 130750 COOPC345	345	147833	MARCY T1	345	1			0.42268	-0.12118	-690.4 -888.5
144	1638.6	3399.5	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-95.6	-153.0	-0.03506	-0.02720	-61.3 -105.9
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.03854	0.20372	887.9 1221.7
149	1646.7	3404.8	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	376.3	540.0	0.09939	0.08663	321.6 464.3
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			0.10201	0.12506	536.2 742.1



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155	1650.9	3407.6	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-88.9	-153.0	-0.03881	-0.02571	-54.0	-96.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.04387	0.29869	796.4	1289.6
160	1656.3	3411.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	363.7	540.0	0.10642	0.08663	311.0	454.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.06626	0.29869	796.4	1291.1
164	1660.4	3413.8	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	103.4	159.0	0.03346	0.02597	101.1	144.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03678	-0.20372	-64.4	-402.6
166	1661.5	3414.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	374.9	540.0	0.09939	0.08663	321.6	465.6
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10201	-0.12506	-521.8	-729.6
188	1689.2	3432.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	796.4	1301.0	0.29869			
			Base Case										
211	1719.5	3452.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.3	540.0	0.10041	0.08663	311.0	459.9
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02617	-0.03526	56.7	-3.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10276	-0.12506	-566.4	-781.4
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00752	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA					
213	1723.1	3454.8	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	368.7	540.0	0.09939	0.08663	311.0	460.2
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10201	-0.12506	-566.4	-781.9
230	1732.8	3461.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	370.5	540.0	0.09784	0.08663	321.6	471.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05500	0.20372	887.9	1240.9
233	1738.4	3464.8	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.5	540.0	0.09924	0.08663	311.0	461.6
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03207	-0.00287	-20.5	-25.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10156	-0.12506	-566.4	-783.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00768	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA					
237	1741.4	3466.8	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	97.0	153.0	0.03218	0.02709	85.5	132.6
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	767					
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1			-0.18727	-0.02720	-61.3	-108.7
241	1749.5	3472.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	536.2	755.0	0.12506			
			Base Case										
246	1754.1	3475.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	365.7	540.0	0.09939	0.08663	311.0	462.9
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10201	0.12506	536.2	755.6
274	1768.8	3484.8	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	364.2	540.0	0.09939	0.08663	311.0	464.2
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10201	-0.12506	-521.8	-743.0
309	1782.3	3493.6	L: 131018 LOUNSL15	115	131850 CNYOGL15	115	1	38.7	143.0	0.05853	0.03893	8.8	78.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.09274	-0.21137	-322.2	-698.9
355	1796.4	3502.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.8	-540.0	-0.08304	-0.08663	-333.4	-489.1
			C:BUS:WATERCURE_345					1735					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.05133	-0.12506	-566.4	-791.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11598	-0.08631	244.2	89.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04447	0.00000	0.0	0.0
364	1799.5	3504.8	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-93.1	-173.0	-0.04440	-0.02941	-53.1	-106.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05019	0.29869	796.4	1333.9
379	1801.1	3505.9	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	124.4	180.0	0.03088	0.02397	94.2	137.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.03395	0.20372	887.9	1254.8
406	1803.5	3507.4	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-348.1	-540.0	-0.10642	-0.08663	-295.3	-451.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.06626	0.29869	796.4	1335.1

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1105	1814.8	3514.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	265.6	383.0	0.06471			
			Base Case										
1839	1818.7	3517.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-36.6	-143.0	-0.05853	-0.03893	-6.7	-77.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09274	-0.21137	-322.2 -706.6
2062	1841.9	3532.6	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	359.8	540.0	0.09784	0.08663	311.0	470.5
			C:130754 KINTI345	345	149000 ROCH	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH	345	1				0.05500	0.20372	887.9 1263.1
2162	1848.3	3536.8	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1254.3	1793.0	0.29144	0.18418	816.7	1157.2
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71					
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62722	-0.17101	-697.6 -1013.7
2714	1853.0	3539.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-263.1	-383.0	-0.06471			
			Base Case										
3516	1858.7	3543.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	331.1	478.0	0.07905	0.06471	266.1	386.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11471	-0.12506	-566.4 -798.9
3556	1861.7	3545.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	330.4	478.0	0.07927	0.06471	266.1	386.6
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00556	-0.03526	56.7 -8.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11487	-0.12506	-566.4 -799.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00931	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
3578	1863.9	3547.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	87.9	153.0	0.03491	0.02709	85.5	136.0
			C:130754 KINTI345	345	147834 NIAG	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG	345	1				-0.03837	-0.20372	-64.4 -444.1
3587	1864.5	3547.4	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-521.8	-755.0	-0.12506			
			Base Case										
3588	1864.7	3547.5	L: 130767 STOLE230	230	130770 SHLDN230	230	1	341.6	540.0	0.10642	0.08663	288.8	450.3
			C:147834 NIAG	345	149000 ROCH	345	1	1320					
			Open 147834 NIAG	345	149000 ROCH	345	1				0.06626	0.29869	796.4 1353.4
3596	1866.0	3548.4	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.9	153.0	0.03006	0.02709	85.5	136.0
			C:130764 MEYER230	230	134750 DAIRY230	230	1	288					
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.03431	-0.08663	-333.4 -495.1
3628	1875.6	3554.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.7	-540.0	-0.10041	-0.08663	-295.3	-457.8
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02617	-0.03526	56.7 -9.4
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10276	-0.12506	-566.4 -801.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00752	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
3637	1879.5	3557.2	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.5	153.0	0.03006	0.02709	85.5	136.4
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	460					
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.03431	0.08663	321.6 484.5
3639	1880.7	3558.0	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-353.1	-540.0	-0.09939	-0.08663	-295.3	-458.2
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10201	-0.12506	-566.4 -801.6
3647	1886.4	3561.7	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	329.3	478.0	0.07883	0.06471	266.1	388.2
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.04708	-0.00287	-20.5 -25.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11404	-0.12506	-566.4 -802.3
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00954	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
3656	1891.6	3565.2	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.1	153.0	0.03006	0.02709	85.5	136.7
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42					
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				0.03431	0.08663	311.0 474.8
3666	1896.3	3568.2	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.8	-540.0	-0.09924	-0.08663	-295.3	-459.6
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03207	-0.00287	-20.5 -26.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10156	-0.12506	-566.4	-803.5				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00768	0.00000	-44.6	-44.6				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
3671	1900.5	3571.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-375.3	-540.0	-0.08667	-0.08663	-333.4	-498.1		
			C:SPS:MARCY_AT1_AT2											1699			
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.02517	0.00089	888.4	890.1				
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.02517	0.00078	774.5	775.9				
3674	1902.6	3572.3	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		327.6	478.0	0.07905	0.06471	266.1	389.2		
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35								
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						0.11471	0.12506	536.2	774.1
3691	1909.5	3576.9	L: 135850 SOUR-114	115	135861	MORTIMER	115	1		95.6	153.0	0.03006	0.02709	85.5	137.2		
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41								
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1						-0.03431	-0.08663	-295.3	-460.7
3695	1911.7	3578.3	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-350.0	-540.0	-0.09939	-0.08663	-295.3	-460.9		
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35								
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						-0.10201	0.12506	536.2	775.3
3698	1917.0	3581.7	*L: 135850 SOUR-114	115	135861	MORTIMER	115	1		95.4	153.0	0.03006	0.02709	85.5	137.4		
			C:130767 STOLE230	230	130770	SHLDN230	230	1	293								
			Open 130767 STOLE230	230	130770	SHLDN230	230	1						0.03431	0.08663	288.8	454.9
3701	1918.3	3582.6	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.9	336.0	0.05115	0.02192	117.7	159.7		
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	263								
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1						0.45175	0.06471	266.1	390.2
3703	1918.6	3582.8	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.9	336.0	0.05115	0.02192	117.7	159.7		
			C:SER:MEYER_HILLSD_68												1707		
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1						0.45175	0.06471	265.6	389.7
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1						0.41292	0.00000	0.5	0.5
3704	1922.8	3585.6	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.6	336.0	0.05115	0.02192	117.7	159.8		
			C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	283								
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1						0.45175	0.06471	265.6	390.0
3705	1923.4	3586.0	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		325.9	478.0	0.07905	0.06471	266.1	390.5		
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						-0.11471	-0.12506	-521.8	-762.4
3707	1926.5	3588.0	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-348.5	-540.0	-0.09939	-0.08663	-295.3	-462.2		
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						0.10201	-0.12506	-521.8	-762.8
3717	1938.4	3595.8	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		379.0	540.0	0.08304	0.08663	321.6	489.6		
			C:BUS:WATERCURE_345												1735		
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.05133	-0.12506	-566.4	-808.8
			Open 130757 WATRC345	345	130768	WATRC230	230	1						0.11598	-0.08631	244.2	76.9
			Open 130755 OAKDL345	345	130757	WATRC345	345	1						-0.04447	0.00000	0.0	0.0
3720	1940.4	3597.1	L: 130767 STOLE230	230	130770	SHLDN230	230	1		345.2	540.0	0.10041	0.08663	288.8	456.9		
			C:SER:HCWC/NWES												1710		
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						-0.02617	-0.03526	56.7	-11.7
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA								
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.10276	-0.12506	-566.4	-809.1
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						0.00752	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
3724	1944.7	3599.9	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		236.5	336.0	0.05115	0.02192	117.7	160.3		
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	287								
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1						-0.45175	-0.06471	-263.1	-388.9
3727	1946.3	3600.9	L: 130767 STOLE230	230	130770	SHLDN230	230	1		346.6	540.0	0.09939	0.08663	288.8	457.4		
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280								
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.10201	-0.12506	-566.4	-809.8
3734	1952.0	3604.7	*L: 130764 MEYER230	230	134750	DAIRY230	230	1		-370.8	-540.0	-0.08667	-0.08663	-333.4	-502.5		
			C:HQ-NY-765-New												1880		
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA								
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA								
			Open 147827 MARCY765	765	147833	MARCY T1	345	1						-0.02517	0.00089	888.4	890.1
			Open 147827 MARCY765	765	147833	MARCY T1	345	2						-0.02517	0.00078	774.5	776.0
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA								
			Open 147838 MASS230B	230	147839	MOSES E	230	1						0.00000	-0.00084	-151.0	-152.6
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA								

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			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.00239	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch											
			Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch											
			Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch											
			Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch											
3737	1961.9	3611.1	L: 130767 STOLE230	230	130770	SHLDN230	230	1	345.3	540.0	0.09924	0.08663	288.8	458.7
			C:SER:HC-WC_30&W-F_171 1704											
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.03207	-0.00287	-20.5	-26.2	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10156	-0.12506	-566.4	-811.8	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00768	0.00000	-44.6	-44.6	
			Open 95593 CHERYFLT	345	95594	CHERYWIND	34.5	1	NA					
3745	1971.9	3617.7	L: 149000 ROCH 345	345	149001	PANNELL3	345	2	793.7	1685.0	0.45199	0.25192	442.3	939.1
			C:149000 ROCH 345 345 149001 PANNELL3 345 1 1386											
			Open 149000 ROCH 345	345	149001	PANNELL3	345	1		0.79682	0.25109	441.0	936.2	
3746	1974.3	3619.3	L: 149000 ROCH 345	345	149001	PANNELL3	345	1	793.2	1685.0	0.45169	0.25109	441.0	936.8
			C:149000 ROCH 345 345 149001 PANNELL3 345 2 1387											
			Open 149000 ROCH 345	345	149001	PANNELL3	345	2		0.79629	0.25192	442.3	939.7	
3748	1977.3	3621.2	L: 130767 STOLE230	230	130770	SHLDN230	230	1	343.5	540.0	0.09939	0.08663	288.8	460.1
			C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35											
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10201	0.12506	536.2	783.5	
3754	1992.0	3630.9	L: 130767 STOLE230	230	130770	SHLDN230	230	1	342.0	540.0	0.09939	0.08663	288.8	461.4
			C: 95593 CHERYFLT 345 200769 HOMER CY 345 1 1451											
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.10201	-0.12506	-521.8	-771.0	
3755	1995.5	3633.1	L: 130815 HINMN115	115	131611	HARIS115	115	1	-237.7	-306.0	-0.03423	-0.02587	-235.1	-286.7
			C:130754 KINTI345 345 147834 NIAG 345 345 1 271											
			Open 130754 KINTI345	345	147834	NIAG	345	345	1	0.04104	-0.20372	-64.4	-470.9	
3757	2001.8	3637.2	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	209.5	280.0	0.03524	0.02663	206.7	260.1
			C:130754 KINTI345 345 147834 NIAG 345 345 1 271											
			Open 130754 KINTI345	345	147834	NIAG	345	345	1	-0.04225	-0.20372	-64.4	-472.2	
3758	2002.0	3637.4	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-344.1	-540.0	-0.09784	-0.08663	-295.3	-468.7
			C:130754 KINTI345 345 149000 ROCH 345 345 1 272											
			Open 130754 KINTI345	345	149000	ROCH	345	345	1	-0.05500	0.20372	887.9	1295.7	
3760	2012.9	3644.5	L: 135861 MORTIMER	115	135874	SWDN-113	115	1	-86.3	-153.0	-0.03313	-0.02571	-54.0	-105.7
			C:130754 KINTI345 345 149000 ROCH 345 345 1 272											
			Open 130754 KINTI345	345	149000	ROCH	345	345	1	-0.03642	0.20372	887.9	1297.9	
3769	2028.0	3654.4	L: 130754 KINTI345	345	149000	ROCH	345	345	1	887.9	1301.0	0.20372		
			Base Case											
3775	2036.6	3660.0	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	363.5	540.0	0.08667	0.08663	321.6	498.1
			C:SPS:MARCY_AT1_AT2 1699											
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		0.02517	0.00089	888.4	890.2	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		0.02517	0.00078	774.5	776.0	
3778	2048.9	3668.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-670.7	-927.0	-0.12510	-0.12506	-566.4	-822.6
			C:HQ-NY-765-New 1880											
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.02391	0.00089	888.4	890.2	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.02391	0.00078	774.5	776.0	
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.00084	-151.0	-152.7	
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.05349	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch											
			Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch											
			Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch											
			Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch											
3787	2065.6	3679.0	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	96.0	173.0	0.03727	0.02892	93.4	153.1

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				C:130754 KINTI345	345	147834 NIAG 345	345	1	271										
				Open 130754 KINTI345		345	147834 NIAG 345	345	1										
3791	2067.0	3679.9	L:	95976 STONYCRK	230	131122 WTHRS230	230	1		368.4	540.0	0.08304		0.08663	311.0	490.0			
				C:BUS:WATERCURE_345					1735										
				Open 130757 WATRC345		345	135249 ARMENMTN	345	1										
				Open 130757 WATRC345		345	130768 WATRC230	230	1										
				Open 130755 OAKDL345		345	130757 WATRC345	345	1										
3792	2068.6	3681.0	L:	130767 STOLE230	230	130770 SHLDN230	230	1		337.6	540.0	0.09784		0.08663	288.8	468.0			
				C:130754 KINTI345		345	149000 ROCH 345	345	1										
				Open 130754 KINTI345		345	149000 ROCH 345	345	1										
3793	2070.5	3682.3	*L:	130815 HINMN115	115	135452 LOCKPORT	115	1		217.5	280.0	0.03016		0.02663	206.7	261.9			
				C:147842 NIAGAR2W		230	147850 NIAG115E	115	1										
				Open 147842 NIAGAR2W		230	147850 NIAG115E	115	1										
3799	2081.3	3689.3	L:	125001 ROCK TAV	345	130750 COOPC345	345	2		-1200.9	-1793.0	-0.28450		-0.17101	-697.6	-1053.6			
				C:130750 COOPC345		345	146754 MDTN TAP	345	1										
				Open 130750 COOPC345		345	146754 MDTN TAP	345	1										
3805	2088.1	3693.8	*L:	131122 WTHRS230	230	134750 DAIRY230	230	1		359.0	540.0	0.08667		0.08663	321.6	502.5			
				C:HQ-NY-765-New					1880										
				Open 147827 MARCY765		765	147828 MASS 765	765	1										
				Open 147828 MASS 765		765	180819 CHA-NY	765	1										
				Open 147827 MARCY765		765	147833 MARCY T1	345	1										
				Open 147827 MARCY765		765	147833 MARCY T1	345	2										
				Open 156 MCY765SW		765	147827 MARCY765	765	1										
				Open 147838 MASS230B		230	147839 MOSES E	230	1										
				Open 147828 MASS 765		765	147838 MASS230B	230	1										
				Open 147837 MASS230A		230	147839 MOSES E	230	1										
				Open 147828 MASS 765		765	147837 MASS230A	230	1										
				Open 158 MS765SW2		765	147828 MASS 765	765	1										
				Open 157 MS765SW1		765	147828 MASS 765	765	1										
				Decrease bus 180001 BEA-DLX		13.8	generation by	100.0	percent dispatch										
				Set bus 181319 CHAT G3		120	load to	357.0	MW dispatch										
				Decrease bus 180002 BEA-DL		13.8	generation by	100.0	percent dispatch										
				Set bus 181419 CHAT G4		120	load to	357.0	MW dispatch										
3809	2096.0	3698.9	L:	147834 NIAG 345	345	149000 ROCH 345	345	1		830.8	1685.0	0.40753		0.29869	796.4	1422.5			
				C:130754 KINTI345		345	147834 NIAG 345	345	1										
				Open 130754 KINTI345		345	147834 NIAG 345	345	1										
3811	2100.2	3701.6	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		105.6	173.0	0.03210		0.02892	93.4	154.1			
				C:130764 MEYER230		230	134750 DAIRY230	230	1										
				Open 130764 MEYER230		230	134750 DAIRY230	230	1										
3815	2113.6	3710.4	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		105.2	173.0	0.03210		0.02892	93.4	154.5			
				C:131122 WTHRS230		230	134750 DAIRY230	230	1										
				Open 131122 WTHRS230		230	134750 DAIRY230	230	1										
3823	2125.8	3718.4	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.8	173.0	0.03210		0.02892	93.4	154.9			
				C: 95976 STONYCRK		230	131122 WTHRS230	230	1										
				Open 95976 STONYCRK		230	131122 WTHRS230	230	1										
3829	2142.2	3729.2	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.8	-336.0	-0.05096		-0.02170	-106.5	-153.0			
				C:130751 CNDGUA_T		230	130761 AVOCA230	230	1										
				Open 130751 CNDGUA_T		230	130761 AVOCA230	230	1										
3830	2142.6	3729.4	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.8	-336.0	-0.05096		-0.02170	-106.5	-153.0			
				C:SER:MEYER_HILLSD_68					1707										
				Open 130761 AVOCA230		230	131154 STONY RIDGE	230	1										
				Open 130751 CNDGUA_T		230	130761 AVOCA230	230	1										
3831	2143.7	3730.1	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.2	173.0	0.03210		0.02892	93.4	155.4			
				C: 95976 STONYCRK		230	130770 SHLDN230	230	1										
				Open 95976 STONYCRK		230	130770 SHLDN230	230	1										
3833	2146.9	3732.2	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.6	-336.0	-0.05096		-0.02170	-106.5	-153.1			
				C:130761 AVOCA230		230	131154 STONY RIDGE	230	1										
				Open 130761 AVOCA230		230	131154 STONY RIDGE	230	1										
3836	2151.1	3735.0	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.0	173.0	0.03210		0.02892	93.4	155.6			
				C:130767 STOLE230		230	130770 SHLDN230	230	1										
				Open 130767 STOLE230		230	130770 SHLDN230	230	1										
3838	2156.6	3738.6	L:	125001 ROCK TAV	345	130750 COOPC345	345	2		-1182.4	-1793.0	-0.28314		-0.17101	-697.6	-1066.5			
				C:SER:CMT34&MTR34					1695										
				Open 130750 COOPC345		345	146754 MDTN TAP	345	1										

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.05247	-0.14517	-406.3	-719.4		
3841	2159.7	3740.6	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	352.8	540.0	0.08667	0.08663	311.0	498.1	
			C:SPS:MARCY_AT1_AT2					1699							
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02517	0.00089	888.4	890.3
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02517	0.00078	774.5	776.1
3847	2168.8	3746.6	L: 130826 MEYER115	115	131343	MEYER M4	34.5	1	-225.5	-336.0	-0.05096	-0.02170	-106.5	-153.6	
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	287						
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1				0.45215	-0.06471	-263.1	-403.4
3861	2187.0	3758.5	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1	-90.1	-173.0	-0.03790	-0.02941	-53.1	-117.4	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				-0.04166	0.20372	887.9	1333.4
3863	2193.8	3762.9	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1014.5	-1703.0	-0.31385	-0.23402	-945.0	-1458.4	
			C:130753 FRASR345	345	147831	GILB 345	345	1	270						
			Open 130753 FRASR345	345	147831	GILB 345	345	1				-0.37434	0.21326	185.5	653.4
3871	2211.3	3774.4	*L: 95976 STONYCRK	230	131122	WTHRS230	230	1	348.3	540.0	0.08667	0.08663	311.0	502.5	
			C:HQ-NY-765-New					1880							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02517	0.00089	888.4	890.4
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02517	0.00078	774.5	776.2
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				0.00000	-0.00084	-151.0	-152.9
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.00239	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
3884	2225.8	3783.9	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	102.3	173.0	0.03176	0.02892	93.4	157.8	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	748						
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1				0.10458	0.02709	85.5	145.8
3885	2226.7	3784.5	*L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	103.1	173.0	0.03139	0.02892	93.4	157.8	
			C:135851 SHEL-113	115	135874	SWDN-113	115	1	750						
			Open 135851 SHEL-113	115	135874	SWDN-113	115	1				0.10310	0.02397	94.2	147.6
3890	2229.2	3786.1	L: 130836 N.WAV115	115	131018	LOUNGS115	115	1	42.5	173.0	0.05853	0.03893	12.7	99.4	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09274	-0.21137	-322.2	-793.4
3897	2240.2	3793.3	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-79.3	-153.0	-0.03290	-0.02720	-61.3	-122.3	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	748						
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1				-0.21015	0.02709	85.5	146.2
3910	2255.6	3803.4	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-352.7	-540.0	-0.08304	-0.08663	-295.3	-490.7	
			C:BUS:WATERCURE_345					1735							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.05133	-0.12506	-566.4	-848.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.11598	-0.08631	244.2	49.5
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.04447	0.00000	0.0	0.0
3925	2274.2	3815.5	L: 130750 COOPC345	345	147833	MARCY T1	345	1	-932.9	-1345.0	-0.18122	-0.12118	-690.4	-966.0	
			C:130750 COOPC345	345	130753	FRASR345	345	1	258						
			Open 130750 COOPC345	345	130753	FRASR345	345	1				0.25656	-0.23402	-945.0	-1477.2
3943	2290.2	3826.1	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	640.5	927.0	0.12510	0.12506	536.2	822.6	
			C:HQ-NY-765-New					1880							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02391	0.00089	888.4	890.4
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02391	0.00078	774.5	776.2
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.00084	-151.0	-152.9
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				-0.05349	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						

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				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch						
3991	2334.1	3854.7	L:	130767 STOLE230	230 130770 SHLDN230	230 1	346.2	540.0	0.08304	0.08663	288.8	491.0
				C:BUS:WATERCURE_345		1735						
				Open 130757 WATRC345	345 135249 ARMENMTN	345 1	-0.05133	-0.12506			-566.4	-858.3
				Open 130757 WATRC345	345 130768 WATRC230	230 1	0.11598	-0.08631			244.2	42.8
				Open 130755 OAKDL345	345 130757 WATRC345	345 1	-0.04447	0.00000			0.0	0.0
3992	2336.2	3856.1	L:	130757 WATRC345	345 135249 ARMENMTN	345 1	-634.8	-927.0	-0.12506	-0.12506	-566.4	-858.6
				C:SIN:250		1780						
				Open 100508 SANDB115	115 100509 SB RCTOR	115 2	-0.00000	0.00000			-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch						
4006	2340.5	3858.9	L:	95976 STONYCRK	230 130770 SHLDN230	230 1	-337.1	-540.0	-0.08667	-0.08663	-295.3	-498.1
				C:SPS:MARCY_AT1_AT2		1699						
				Open 147827 MARCY765	765 147833 MARCY T1	345 1	-0.02517	0.00089			888.4	890.5
				Open 147827 MARCY765	765 147833 MARCY T1	345 2	-0.02517	0.00078			774.5	776.3
4013	2344.1	3861.3	L:	130757 WATRC345	345 135249 ARMENMTN	345 1	-633.8	-927.0	-0.12506	-0.12506	-566.4	-859.6
				C:GEN:SEABROOK		1675						
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch						
4014	2344.1	3861.3	L:	130757 WATRC345	345 135249 ARMENMTN	345 1	-633.8	-927.0	-0.12506	-0.12506	-566.4	-859.6
				C:GEN:SEAB&OMS		1677						
				Open 100508 SANDB115	115 100509 SB RCTOR	115 2	-0.00000	0.00000			-0.0	-0.0
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch						
4304	2381.5	3885.8	L:	130757 WATRC345	345 135249 ARMENMTN	345 1	-629.2	-927.0	-0.12506	-0.12506	-566.4	-864.2
				C:GEN:MILLST 3		1674						
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch						
4305	2381.5	3885.8	L:	130757 WATRC345	345 135249 ARMENMTN	345 1	-629.2	-927.0	-0.12506	-0.12506	-566.4	-864.2
				C:GEN:MLS3&OMS		1676						
				Open 100508 SANDB115	115 100509 SB RCTOR	115 2	-0.00000	0.00000			-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch						
4333	2382.2	3886.3	L:	135861 MORTIMER	115 135873 SWDN-111	115 1	-73.9	-153.0	-0.03320	-0.02720	-61.3	-126.2
				C:135861 MORTIMER	115 135874 SWDN-113	115 1	768					
				Open 135861 MORTIMER	115 135874 SWDN-113	115 1	0.23301	-0.02571			-54.0	-115.2
5405	2386.2	3888.9	L:	147834 NIAG 345	345 149000 ROCH 345	345 1	971.9	1685.0	0.29885	0.29869	796.4	1509.2
				C:HQ-NY-765-New		1880						
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
				Open 147827 MARCY765	765 147833 MARCY T1	345 1	0.09591	0.00089			888.4	890.5
				Open 147827 MARCY765	765 147833 MARCY T1	345 2	0.09591	0.00078			774.5	776.3
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA					
				Open 147838 MASS230B	230 147839 MOSES E	230 1	-0.00000	-0.00084			-151.0	-153.0
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
				Open 147837 MASS230A	230 147839 MOSES E	230 1	-0.01535	0.00000			-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA					
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA					
				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0 percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0 MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0 percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0 MW dispatch						
5587	2392.0	3892.7	*L:	95976 STONYCRK	230 130770 SHLDN230	230 1	-332.7	-540.0	-0.08667	-0.08663	-295.3	-502.5
				C:HQ-NY-765-New		1880						
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA					
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA					
				Open 147827 MARCY765	765 147833 MARCY T1	345 1	-0.02517	0.00089			888.4	890.5
				Open 147827 MARCY765	765 147833 MARCY T1	345 2	-0.02517	0.00078			774.5	776.3
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA					
				Open 147838 MASS230B	230 147839 MOSES E	230 1	0.00000	-0.00084			-151.0	-153.0
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA					
				Open 147837 MASS230A	230 147839 MOSES E	230 1	-0.00239	0.00000			-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA					
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA					
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA					

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				Decrease bus 180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319	CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419	CHAT G4	120	load to	357.0	MW dispatch							
5620	2394.7	3894.5	L:	95646	DEANWIND	230	130772	SHRED230	230	1	175.3	440.0	0.11054	0.05691	93.6	229.8
				C:130755	OAKDL345	345	130757	WATRC345	345	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5688	2405.2	3901.3	L:	95593	CHERYFLT	345	200769	HOMER CY	345	1	-626.1	-927.0	-0.12510	-0.12506	-521.8	-822.6
				C:HQ-NY-765-New												
				Open 147827	MARCY765	765	147828	MASS 765	765	1						
				Open 147828	MASS 765	765	180819	CHA-NY	765	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2	-0.02391	0.00089			888.4	890.5
				Open 156	MCY765SW	765	147827	MARCY765	765	1					774.5	776.3
				Open 147838	MASS230B	230	147839	MOSES E	230	1						
				Open 147828	MASS 765	765	147838	MASS230B	230	1						
				Open 147837	MASS230A	230	147839	MOSES E	230	1						
				Open 147828	MASS 765	765	147837	MASS230A	230	1						
				Open 158	MS765SW2	765	147828	MASS 765	765	1						
				Open 157	MS765SW1	765	147828	MASS 765	765	1						
				Decrease bus 180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319	CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419	CHAT G4	120	load to	357.0	MW dispatch							
5692	2406.5	3902.2	L:	130764	MEYER230	230	131343	MEYER M4	34.5	1	212.9	336.0	0.05115	0.02192	117.7	170.4
				C:130751	CNDGUA_T	230	130764	MEYER230	230	1						
				Open 130751	CNDGUA_T	230	130764	MEYER230	230	1						
5699	2409.3	3904.0	L:	130787	CODNT115	115	130830	MONTR115	115	1	-17.9	-144.0	-0.05235	-0.03508	8.4	-76.1
				C:130755	OAKDL345	345	130757	WATRC345	345	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5701	2410.3	3904.6	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-602.8	-927.0	-0.13452	-0.12506	-566.4	-867.8
				C:130764	MEYER230	230	134750	DAIRY230	230	1						
				Open 130764	MEYER230	230	134750	DAIRY230	230	1						
5710	2415.6	3908.1	L:	130767	STOLE230	230	130770	SHLDN230	230	1	330.6	540.0	0.08667	0.08663	288.8	498.1
				C:SPS:MARCY_AT1_AT2												
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2						
5717	2419.9	3910.9	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-601.5	-927.0	-0.13452	-0.12506	-566.4	-869.0
				C:131122	WTHRS230	230	134750	DAIRY230	230	1						
				Open 131122	WTHRS230	230	134750	DAIRY230	230	1						
5736	2428.5	3916.6	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-600.3	-927.0	-0.13452	-0.12506	-566.4	-870.1
				C:95976	STONYCRK	230	131122	WTHRS230	230	1						
				Open 95976	STONYCRK	230	131122	WTHRS230	230	1						
5737	2429.5	3917.2	L:	131018	LOUNSL115	115	131850	CNYOG115	115	1	10.8	143.0	0.05443	0.03893	8.8	103.4
				C:BUS:WATERCURE_345												
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1						
				Open 130757	WATRC345	345	130768	WATRC230	230	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5743	2433.2	3919.6	L:	130750	COOPC345	345	130753	FRASR345	345	1	-1078.4	-1703.0	-0.25670	-0.23402	-945.0	-1514.4
				C:137451	LEEDS 3	345	147831	GILB 345	345	1						
				Open 137451	LEEDS 3	345	147831	GILB 345	345	1						
5759	2439.6	3923.8	L:	147834	NIAG 345	345	149000	ROCH 345	345	1	955.9	1685.0	0.29885	0.29869	796.4	1525.1
				C:SPS:MARCY_AT1_AT2												
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2						
5770	2441.2	3924.9	*L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-598.6	-927.0	-0.13452	-0.12506	-566.4	-871.7
				C:95976	STONYCRK	230	130770	SHLDN230	230	1						
				Open 95976	STONYCRK	230	130770	SHLDN230	230	1						
5801	2458.4	3936.1	L:	137451	LEEDS 3	345	147831	GILB 345	345	1	-1352.8	-1912.0	-0.22747	-0.15101	-888.0	-1259.2
				C:BUS:N.S._99												
				Open 137453	N.SCOT99	345	147831	GILB 345	345	1						
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1						
				Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1						
				Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2						



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			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12345	0.00000	3.4	3.4	
5803	2459.5	3936.9	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-168.1	-440.0	-0.11054	-0.05691	-86.4	-226.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.25372	-0.21137	-322.2	-842.1	
5805	2461.9	3938.4	L: 131243 SLEIG115	115	149004 S121 B#2	115	1	-107.5	-189.0	-0.03310	-0.02292	-98.5	-154.9
			C:136150 CLAY	345	149001 PANNELL3	345	2	794					
			Open 136150 CLAY	345	149001 PANNELL3	345	2		0.03858	-0.26397	-234.8	-884.7	
5806	2463.0	3939.1	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	167.7	440.0	0.11054	0.05691	86.0	226.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.25372	-0.21137	-322.2	-842.8	
5815	2467.1	3941.8	L: 131243 SLEIG115	115	149004 S121 B#2	115	1	-107.5	-189.0	-0.03305	-0.02292	-98.5	-155.0
			C:136150 CLAY	345	149001 PANNELL3	345	1	793					
			Open 136150 CLAY	345	149001 PANNELL3	345	1		0.03851	-0.26312	-234.1	-883.2	
5816	2467.2	3941.9	*L: 130767 STOLE230	230	130770 SHLDN230	230	1	326.2	540.0	0.08667	0.08663	288.8	502.5
			C:HQ-NY-765-New					1880					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02517	0.00089	888.4	890.6	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02517	0.00078	774.5	776.4	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00084	-151.0	-153.1	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.00239	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
5820	2468.6	3942.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-8.6	-143.0	-0.05443	-0.03893	-6.7	-102.8
			C:BUS:WATERCURE_345					1735					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.04980	-0.12506	-566.4	-875.1	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.10748	-0.08631	244.2	31.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04797	0.00000	0.0	0.0	
5834	2474.4	3946.6	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-19.3	143.0	0.06557	0.03893	8.8	105.1
			C:BUS:WATERCURE_230					1736					
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		-0.22227	-0.05691	-51.8	-192.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.16220	-0.08631	244.2	30.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.11570	0.00000	0.4	0.4	
5869	2487.8	3955.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-78.7	-173.0	-0.03790	-0.02941	-76.0	-149.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		0.04166	-0.20372	-64.4	-571.2	
5908	2499.4	3963.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	104.1	180.0	0.03035	0.02355	102.0	160.9
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		-0.03336	-0.20372	-64.4	-573.5	
5966	2506.8	3967.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	21.4	-143.0	-0.06557	-0.03893	-6.7	-104.3
			C:BUS:WATERCURE_230					1736					
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		0.22227	-0.05691	-51.8	-194.5	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.16220	-0.08631	244.2	27.9	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.11570	0.00000	0.4	0.4	
6060	2512.8	3971.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1109.6	-1724.0	-0.24449	-0.12699	-626.3	-945.4
			C:BUS:N.S._77					1717					
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.60280	-0.11529	-450.3	-740.0	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.39243	-0.00283	256.8	249.7	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.32357	0.16566	800.7	1217.0	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.25034	-0.02681	26.2	-41.1	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-0.00000	-0.12700	-627.4	-946.5	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.18840	0.00000	-250.0	-250.0	
7554	2543.9	3992.1	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-63.8	-153.0	-0.03506	-0.02720	-61.3	-130.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		0.03854	-0.20372	-64.4	-582.6	
7566	2549.2	3995.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	290.1	478.0	0.07371	0.06471	266.1	431.0

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03014	0.29869	796.4	1557.9					
7580	2557.0	4000.6	L: 136150 CLAY	345	149001 PANNELL3	345	2		-370.1	-1434.0	-0.41608		-0.26397	-234.8	-909.8				
			C:136150 CLAY	345	149001 PANNELL3	345	1	793											
			Open 136150 CLAY	345	149001 PANNELL3	345	1					0.57810	-0.26312	-234.1	-906.9				
7585	2557.7	4001.1	L: 130762 GARDV230	230	130767 STOLE230	230	1		262.7	478.0	0.08418		0.05788	120.6	268.7				
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	292											
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1						-0.47479	-0.05538	-299.2	-440.9			
7588	2558.1	4001.4	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-275.8	-478.0	-0.07905		-0.06471	-210.8	-376.3				
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.11471	-0.12506	-566.4	-886.3				
7593	2559.2	4002.1	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-275.1	-478.0	-0.07927		-0.06471	-210.8	-376.4				
			C:SER:HCWC/NWES					1710											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.00556	-0.03526	56.7	-33.5				
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.11487	-0.12506	-566.4	-886.5				
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA										
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					-0.00931	0.00000	-44.6	-44.6				
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA										
7599	2561.6	4003.7	L: 136150 CLAY	345	149001 PANNELL3	345	1		-369.6	-1434.0	-0.41551		-0.26312	-234.1	-908.1				
			C:136150 CLAY	345	149001 PANNELL3	345	2	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	2					0.57730	-0.26397	-234.8	-911.0				
7615	2569.7	4009.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1		295.2	478.0	0.07115		0.06471	266.1	432.4				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1						-0.28685	-0.02246	-101.3	-159.1			
7631	2573.4	4011.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1189.5	-1792.0	-0.23411		-0.17737	-898.1	-1354.5				
			C:SIN:160					1773											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.34253	0.16566	800.7	1227.0				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19630	0.00000	87.6	87.6				
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.00028	-0.00015	39.5	39.1				
7632	2573.5	4011.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1189.5	-1792.0	-0.23411		-0.17737	-898.1	-1354.5				
			C:SIN:150					1772											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.34253	0.16566	800.7	1227.0				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19632	0.00000	87.6	87.6				
			Open 137235 PORTER 1	115	147905 ILLION	115	1					-0.00018	-0.00009	44.6	44.3				
7635	2574.2	4011.9	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1053.8	-1703.0	-0.25221		-0.23402	-945.0	-1547.4				
			C:BUS:N.S._99					1718											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1					0.12288	-0.06226	-454.1	-614.3				
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					0.05425	-0.17737	-898.1	-1354.6				
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1					0.00125	-0.00265	272.2	265.4				
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2					0.00725	-0.12699	-626.3	-953.2				
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1					-0.00473	0.00000	3.4	3.4				
7644	2577.6	4014.2	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		604.6	927.0	0.12506		0.12506	536.2	858.6				
			C:SIN:250					1780											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2					0.00000	0.00000	-0.0	-0.0				
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW														
7649	2580.4	4016.0	L: Interface 73 MarcySouthS						1635.4	2552.0	0.35519								
			Base Case																
7650	2580.7	4016.2	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		80.3	159.0	0.03049		0.02275	73.4	132.1				
			C:136150 CLAY	345	149001 PANNELL3	345	2	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	2					-0.02934	-0.26397	-234.8	-916.0				
7651	2581.4	4016.7	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1		21.9	143.0	0.04690		0.03893	8.8	109.3				
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37											
			Open 95646 DEANWIND	230	130772 SHRED230	230	1					0.14020	0.05691	93.6	240.5				
7657	2585.2	4019.1	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		80.3	159.0	0.03045		0.02275	73.4	132.2				
			C:136150 CLAY	345	149001 PANNELL3	345	1	793											
			Open 136150 CLAY	345	149001 PANNELL3	345	1					-0.02929	-0.26312	-234.1	-914.3				
7659	2585.5	4019.3	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		603.6	927.0	0.12506		0.12506	536.2	859.6				
			C:GEN:SEAB&OMS					1677											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2					0.00000	0.00000	-0.0	-0.0				
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW														
7660	2585.5	4019.3	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		603.6	927.0	0.12506		0.12506	536.2	859.6				
			C:GEN:SEABROOK					1675											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW														

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7669	2587.7	4020.8	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-274.0	-478.0	-0.07883	-0.06471	-210.8	-378.2	
			C:SER:HC-WC_30&W-F_171									1704		
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04708	-0.00287	-20.5	-27.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11404	-0.12506	-566.4	-890.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00954	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA					
7670	2587.9	4020.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	8.5	-143.0	-0.05853	-0.03893	38.3	-62.4	
			C:130755 OAKDL345	345	130757 WATRC345	345	1					273		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09274	-0.21137	-322.2	-869.2
7675	2590.5	4022.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-88.5	-173.0	-0.03264	-0.02941	-76.0	-152.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				0.03725	-0.08663	-333.4	-557.8
7704	2601.9	4030.1	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-272.3	-478.0	-0.07905	-0.06471	-210.8	-379.2	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.11471	0.12506	536.2	861.6
7705	2602.5	4030.4	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-194.4	-317.0	-0.04709	-0.02111	-121.7	-176.7	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1					72		
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17898	-0.14517	-406.3	-784.1
7707	2602.8	4030.7	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.1	
			C:130765 OAKDL230	230	130772 SHRED230	230	1					289		
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14020	-0.05691	-86.4	-234.5
7710	2603.6	4031.2	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.2	
			C:SER:OAKDALE_WATRC230									1696		
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14020	-0.05691	-86.4	-234.6
			Open 130765 OAKDL230	230	130838 OAKDLL115	115	1				-0.09685	0.00000	0.4	0.4
7713	2603.9	4031.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-88.0	-173.0	-0.03264	-0.02941	-76.0	-152.6	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				-0.03725	0.08663	321.6	547.2
7714	2604.0	4031.4	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.2	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1					290		
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.14020	0.05691	86.0	234.2
7718	2606.1	4032.8	L: 130762 GARDV230	230	130767 STOLE230	230	1	263.5	478.0	0.08231	0.05788	120.6	271.5	
			C:130766 ROBIN230	230	130767 STOLE230	230	1					291		
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.84963	0.02875	168.1	243.1
7727	2608.1	4034.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	292.4	478.0	0.07115	0.06471	266.1	434.9	
			C:131342 BENET115	115	131347 HOWARD	115	1					471		
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28685	0.02246	91.8	150.4
7728	2608.4	4034.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	330.5	478.0	0.05654	0.06471	266.1	434.9	
			C:BUS:WATERCURE_345									1735		
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04490	-0.12506	-566.4	-892.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15973	-0.08631	244.2	19.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.03651	0.00000	0.0	0.0
7735	2609.6	4035.1	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	-25.7	143.0	0.06464	0.03893	8.8	110.4	
			C:130763 HILSD230	230	130768 WATRC230	230	1					286		
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.17953	0.14322	-192.1	181.7
7738	2610.6	4035.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	861.3	1685.0	0.31553	0.29869	796.4	1576.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.19440	-0.08663	-333.4	-559.6
7755	2616.1	4039.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-87.6	-173.0	-0.03264	-0.02941	-76.0	-153.0	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42		
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				-0.03725	0.08663	311.0	537.6
7761	2617.9	4040.5	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	859.0	1685.0	0.31553	0.29869	796.4	1578.4	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.19440	0.08663	321.6	548.4
7781	2621.5	4042.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	263.9	478.0	0.08166	0.06471	266.1	435.7	
			C:LKWANA-OXBW									1754		
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.12140	-0.13967	17.9	-348.3
7787	2622.8	4043.7	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-270.7	-478.0	-0.07905	-0.06471	-210.8	-380.5	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1					1451		
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.11471	-0.12506	-521.8	-849.8
7788	2622.9	4043.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	599.0	927.0	0.12506	0.12506	536.2	864.2	
			C:GEN:MILLST 3									1674		

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				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7789	2622.9	4043.8	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				599.0	927.0	0.12506		0.12506	536.2	864.2
				C:GEN:MLS3&OMS			1676							
				Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00000	0.00000		-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7801	2624.5	4044.8	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				856.9	1685.0	0.31553		0.29869	796.4	1580.3
				C: 95976 STONYCRK 230 131122 WTHRS230 230 1 42										
				Open 95976 STONYCRK 230 131122 WTHRS230 230 1						0.19440	0.08663		311.0	538.3
7811	2626.8	4046.4	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-19.8	-143.0	-0.04690		-0.03893	-6.7	-108.9
				C: 95646 DEANWIND 230 130772 SHRED230 230 1 37										
				Open 95646 DEANWIND 230 130772 SHRED230 230 1						-0.14020	0.05691		93.6	243.0
7815	2627.6	4046.9	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				900.2	1685.0	0.29869		0.29869	796.4	1581.3
				C:GEN:GINNA			1664							
				Remove unit 1 from bus 149140 GINNA 19	19.0	582.0	MW	dispatch						
7881	2632.8	4050.3	L:	130826 MEYER115 115 131343 MEYER M4 34.5 1				-201.8	-336.0	-0.05096		-0.02170	-106.5	-163.7
				C:130751 CNDGUA_T 230 130764 MEYER230 230 1 264										
				Open 130751 CNDGUA_T 230 130764 MEYER230 230 1						0.45215	-0.06471		-210.8	-381.2
7898	2634.0	4051.0	L:	135862 MUMFORD1 115 135866 NLEROYTA 115 1				-87.0	-173.0	-0.03264		-0.02941	-76.0	-153.5
				C: 95976 STONYCRK 230 130770 SHLDN230 230 1 41										
				Open 95976 STONYCRK 230 130770 SHLDN230 230 1						0.03725	-0.08663		-295.3	-523.5
7903	2634.1	4051.2	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				853.8	1685.0	0.31553		0.29869	796.4	1583.2
				C: 95976 STONYCRK 230 130770 SHLDN230 230 1 41										
				Open 95976 STONYCRK 230 130770 SHLDN230 230 1						-0.19440	-0.08663		-295.3	-523.5
7910	2634.8	4051.6	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				572.6	927.0	0.13452		0.12506	536.2	865.7
				C:130764 MEYER230 230 134750 DAIRY230 230 1 288										
				Open 130764 MEYER230 230 134750 DAIRY230 230 1						-0.10911	-0.08663		-333.4	-561.7
7958	2638.2	4053.8*L:		147834 NIAG 345 345 149000 ROCH 345 345 1				852.6	1685.0	0.31553		0.29869	796.4	1584.4
				C:130767 STOLE230 230 130770 SHLDN230 230 1 293										
				Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.19440	0.08663		288.8	517.3
8041	2641.4	4055.9	L:	135862 MUMFORD1 115 135866 NLEROYTA 115 1				-86.8	-173.0	-0.03264		-0.02941	-76.0	-153.7
				C:130767 STOLE230 230 130770 SHLDN230 230 1 293										
				Open 130767 STOLE230 230 130770 SHLDN230 230 1						-0.03725	0.08663		288.8	517.6
8106	2642.5	4056.7	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				27.8	-143.0	-0.06464		-0.03893	-6.7	-109.5
				C:130763 HILSD230 230 130768 WATRC230 230 1 286										
				Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.17953	0.14322		-192.1	186.4
9037	2644.4	4057.8	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				571.3	927.0	0.13452		0.12506	536.2	866.9
				C:131122 WTHRS230 230 134750 DAIRY230 230 1 460										
				Open 131122 WTHRS230 230 134750 DAIRY230 230 1						0.10911	0.08663		321.6	550.7
9122	2645.7	4058.7	L:	137200 EDIC 345 137452 N.SCOT77 345 1				1118.2	1724.0	0.22897		0.16566	800.7	1239.0
				C:BUS:N.S._99			1718							
				Open 137453 N.SCOT99 345 147831 GILB 345 345 1						-0.14465	-0.06226		-454.1	-618.8
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						-0.35359	-0.17737		-898.1	-1367.3
				Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1						-0.08229	-0.00265		272.2	265.2
				Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2						0.06802	-0.12699		-626.3	-962.2
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						-0.19903	0.00000		3.4	3.4
9220	2648.3	4060.4	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.8	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:130765 OAKDL230 230 130772 SHRED230 230 1 289										
				Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.14020	-0.05691		-86.4	-237.1
9241	2649.1	4060.9	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.8	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:SER:OAKDALE_WATRC230			1696							
				Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.14020	-0.05691		-86.4	-237.1
				Open 130765 OAKDL230 230 130838 OAKDL115 115 1						0.09685	0.00000		0.4	0.4
9258	2649.4	4061.1	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.7	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:130765 OAKDL230 230 130838 OAKDL115 115 1 290										
				Open 130765 OAKDL230 230 130838 OAKDL115 115 1						-0.14020	0.05691		86.0	236.8
9306	2651.1	4062.3	L:	131018 LOUNSL115 115 131850 CNYOG115 115 1				8.8	112.0	0.03893				
				Base Case										
9330	2653.0	4063.5	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				570.1	927.0	0.13452		0.12506	536.2	868.0
				C: 95976 STONYCRK 230 131122 WTHRS230 230 1 42										
				Open 95976 STONYCRK 230 131122 WTHRS230 230 1						0.10911	0.08663		311.0	540.8
9362	2655.5	4065.1	L:	135861 MORTIMER 115 135873 SWDN-111 115 1				-72.8	-153.0	-0.03019		-0.02720	-61.3	-133.6
				C:130764 MEYER230 230 134750 DAIRY230 230 1 288										
				Open 130764 MEYER230 230 134750 DAIRY230 230 1						0.03445	-0.08663		-333.4	-563.5
9417	2665.7	4071.8*L:		95593 CHERYFLT 345 135249 ARMENMTN 345 1				568.4	927.0	0.13452		0.12506	536.2	869.6

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				C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41									
				Open 95976 STONYCRK	230	130770	SHLDN230	230	1										
9423	2669.0	4074.0	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C:131122 WTHRS230	230	134750	DAIRY230	230	1	460									
				Open 131122 WTHRS230	230	134750	DAIRY230	230	1										
9447	2681.2	4081.9	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C: 95976 STONYCRK	230	131122	WTHRS230	230	1	42									
				Open 95976 STONYCRK	230	131122	WTHRS230	230	1										
9452	2683.4	4083.4	L:	137453 N.SCOT99	345	147833	MARCY T1	345	1										
				C:137200 EDIC	345	137452	N.SCOT77	345	1	1026									
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
9453	2683.5	4083.4	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2										
				C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	185									
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1										
9462	2692.6	4089.4	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:SIN:250						1780									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9486	2699.0	4093.6	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41									
				Open 95976 STONYCRK	230	130770	SHLDN230	230	1										
9490	2700.5	4094.6	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:SEABROOK						1675									
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
9491	2700.5	4094.6	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:SEAB&OMS						1677									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
9501	2705.6	4098.0	*L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C:135856 EBAT-119	115	135859	LAPPINS1	115	1	756									
				Open 135856 EBAT-119	115	135859	LAPPINS1	115	1										
9502	2705.8	4098.1	L:	130848 S.OWE115	115	131850	CNYOG115	115	1										
				Base Case															
9504	2706.2	4098.3	L:	131018 LOUN5115	115	131850	CNYOG115	115	1										
				C: 95646 DEANWIND	230	130768	WATRC230	230	1	36									
				Open 95646 DEANWIND	230	130768	WATRC230	230	1										
9505	2706.4	4098.5	L:	135851 SHEL-113	115	135874	SWDN-113	115	1										
				C:130754 KINTI345	345	147834	NIAG 345	345	1	271									
				Open 130754 KINTI345	345	147834	NIAG 345	345	1										
9548	2721.4	4108.3	L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1										
				C:135850 SOUR-114	115	135861	MORTIMER	115	1	748									
				Open 135850 SOUR-114	115	135861	MORTIMER	115	1										
9570	2728.0	4112.6	*L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1										
				C:135851 SHEL-113	115	135874	SWDN-113	115	1	750									
				Open 135851 SHEL-113	115	135874	SWDN-113	115	1										
9571	2729.8	4113.8	L:	135853 BATAVIA1	115	135871	SENECAP	115	1										
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1										
9577	2733.2	4116.0	*L:	131018 LOUN5115	115	131850	CNYOG115	115	1										
				C:130755 OAKDL345	345	131128	LAPEER	345	1	276									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1										
9584	2737.9	4119.1	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:MILLST 3						1674									
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9585	2737.9	4119.1	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:MLS3&OMS						1676									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9602	2741.7	4121.5	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:130764 MEYER230	230	134750	DAIRY230	230	1	288									
				Open 130764 MEYER230	230	134750	DAIRY230	230	1										
9629	2751.2	4127.8	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:131122 WTHRS230	230	134750	DAIRY230	230	1	460									
				Open 131122 WTHRS230	230	134750	DAIRY230	230	1										

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9632	2751.6	4128.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-13.9	-143.0	-0.04690	-0.03893	-6.7	-113.8
			C: 95646 DEANWIND	230	130768 WATRC230	230	1						
			Open 95646 DEANWIND	230	130768 WATRC230	230	1			0.14020	-0.05691	-51.8	-208.4
9637	2756.4	4131.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.7	1724.0	0.22324	0.16566	800.7	1257.3
			C:SIN:170										
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32460	-0.17737	-898.1	-1387.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.18804	0.00000	87.6	87.6
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00028	-0.00015	39.5	39.1
9638	2756.4	4131.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.7	1724.0	0.22324	0.16566	800.7	1257.3
			C:SIN:180										
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32460	-0.17737	-898.1	-1387.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.18806	0.00000	87.6	87.6
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00019	-0.00009	44.6	44.3
9645	2759.9	4133.5	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-555.8	-927.0	-0.13452	-0.12506	-521.8	-867.0
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			-0.10911	0.08663	311.0	550.1
9646	2759.9	4133.5	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	-71.0	-558.0	-0.17645	-0.12447	-26.5	-370.0
			C:147834 NIAG 345	345	157051 BECK B	345	1						
			Open 147834 NIAG 345	345	157051 BECK B	345	1			0.21070	-0.24671	-211.3	-892.2
9647	2760.0	4133.5	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	-71.0	-558.0	-0.17645	-0.12447	-26.5	-370.0
			C:147834 NIAG 345	345	157050 BECK A	345	1						
			Open 147834 NIAG 345	345	157050 BECK A	345	1			0.21070	-0.24671	-211.2	-892.2
9659	2767.4	4138.4	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-66.5	-153.0	-0.03126	-0.02571	-54.0	-125.1
			C:135861 MORTIMER	115	135873 SWDN-111	115	1						
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1			0.20400	-0.02720	-61.3	-136.6
9660	2767.4	4138.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1011.4	-1703.0	-0.24991	-0.23402	-945.0	-1592.7
			C:BUS:N.S._77										
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.04140	-0.11529	-450.3	-769.3
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02330	-0.00283	256.8	248.9
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.06690	0.16566	800.7	1259.1
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.00094	-0.02681	26.2	-48.0
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			-0.00000	-0.12700	-627.4	-978.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2			0.00042	0.00000	-250.0	-250.0
9669	2772.4	4141.7	L: 95646 DEANWIND	230	130768 WATRC230	230	1	-133.5	-440.0	-0.11054	-0.05691	-51.8	-209.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.25372	-0.21137	-322.2	-908.2
9670	2772.6	4141.8	*L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-554.0	-927.0	-0.13452	-0.12506	-521.8	-868.6
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			0.10911	-0.08663	-295.3	-535.5
9722	2785.3	4150.1	*L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-29.2	-143.0	-0.04087	-0.03893	-6.7	-115.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.04124	-0.04712	-545.4	-676.6
9761	2795.7	4156.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-503.9	-707.0	-0.07263	-0.03901	-409.8	-518.9
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.23163	-0.14517	-406.3	-812.2
9766	2796.6	4157.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1016.2	-1703.0	-0.24559	-0.23402	-945.0	-1599.5
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.08849	-0.13083	-804.1	-1169.9
11381	2833.3	4181.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-945.5	-1331.0	-0.13605			
			Base Case										
11552	2856.7	4196.8	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-322.2	-926.0	-0.21137			
			Base Case										
11644	2868.6	4204.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1223.1	-1725.0	-0.17496	-0.13605	-945.5	-1335.8
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.30048	-0.12947	-923.9	-1295.3
11670	2871.9	4206.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1086.2	1724.0	0.22207	0.16566	800.7	1276.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.31799	-0.17737	-898.1	-1407.5
11680	2873.2	4207.6	L: 130836 N.WAV115	115	131018 LOUNSI15	115	1	-15.4	173.0	0.06557	0.03893	12.7	124.5
			C:BUS:WATERCURE_230										
			Open 95646 DEANWIND	230	130768 WATRC230	230	1			-0.22227	-0.05691	-51.8	-215.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.16220	-0.08631	244.2	-3.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.11570	0.00000	0.4	0.4

DysingerEast

11688	2873.8	4208.0	L: Interface	1	DYSINGER EAS	2327.0	4208.0	0.65454					
			Base Case										
14847	2909.6	4231.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-999.6	-1703.0	-0.24174	-0.23402	-945.0	-1625.9
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.05575	-0.13861	-979.3 -1382.6
14856	2910.0	4231.7	L: 130836 N.WAV115	115	131018 LOUN515	115	1	14.6	173.0	0.05443	0.03893	12.7	125.9
			C:BUS:WATERCURE_345					1735					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04980	-0.12506	-566.4 -930.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.10748	-0.08631	244.2 -6.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04797	0.00000	0.0 0.0
14928	2915.4	4235.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-999.1	-1703.0	-0.24143	-0.23402	-945.0	-1627.3
			C:137453 N.SCOT99	345	147831 GILB 345	345	1	1093					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.11914	-0.06226	-454.1 -635.6
14935	2918.2	4237.1	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-56.3	-153.0	-0.03313	-0.02571	-54.0	-129.0
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				0.03642	-0.20372	-64.4 -658.9
14942	2920.9	4238.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-997.4	-1703.0	-0.24156	-0.23402	-945.0	-1628.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	186					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				0.05543	-0.13605	-945.5 -1342.9
14957	2923.4	4240.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-430.7	-1076.0	-0.22075	-0.21137	-322.2	-940.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276					
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.19894	-0.04712	-545.4 -683.1
14967	2926.3	4242.4	L: 130753 FRASR345	345	147831 GILB 345	345	1	599.8	1524.0	0.31584	0.21326	185.5	809.6
			C:130750 COOPC345	345	130753 FRASR345	345	1	258					
			Open 130750 COOPC345	345	130753 FRASR345	345	1				-0.43834	-0.23402	-945.0 -1629.8
14995	2934.6	4247.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-995.5	-1703.0	-0.24109	-0.23402	-945.0	-1631.8
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	187					
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1				0.05463	-0.12947	-923.9 -1303.8
15029	2940.6	4251.8	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-454.2	-1076.0	-0.21144	-0.21137	-322.2	-943.7
			C:HQ-NY-765-New					1880					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.03800	0.00089	888.4 891.0
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.03800	0.00078	774.5 776.7
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00084	-151.0 -153.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.05728	0.00000	-153.0 -153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
16757	2986.4	4281.7	L: 130762 GARDV230	230	135413 GRDNVL2	230	1	-501.3	-773.0	-0.09098	-0.06662	-369.7	-568.6
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	292					
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1				0.43985	-0.05538	-299.2 -464.6
16771	2987.6	4282.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-365.6	-1076.0	-0.23779	-0.21137	-322.2	-953.7
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37					
			Open 95646 DEANWIND	230	130772 SHRED230	230	1				-0.46416	0.05691	93.6 263.6

WestCentral

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:47  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 16820  
 First violation - 577.4 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 16820 violations

Interface-1 Interface 2 WEST CENTRAL Init.Flow= 1091.68 TDF= 0.7217

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment	
			C: Contingency description	Flow	Rating	LODF	Init	Final		
1	577.4	1508.4	L: 135872 SOUR-111 115 135873 SWDN-111 115 1 C:147834 NIAG 345 345 149000 ROCH 345 345 1 1320 Open 147834 NIAG 345 345 149000 ROCH 345 345 1	136.4	159.0	0.03920	0.02597	101.1	116.1	
2	663.6	1570.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1	330.5	383.0	0.07905	0.06471	265.6	308.5	
3	669.9	1575.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	329.9	383.0	0.07927	-0.11471	-0.12506	-566.4	-649.4
4	677.5	1580.7	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130751 CNDGUA_T 230 130761 AVOCA230 230 1 263 Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1	-137.8	-159.0	-0.03132	-0.02246	-101.3	-116.6	
5	678.2	1581.2	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:SER:MEYER_HILLSD_68 1707 Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1 Open 130751 CNDGUA_T 230 130761 AVOCA230 230 1	-137.8	-159.0	-0.03132	-0.13692	0.06471	266.1	309.9
6	679.8	1582.3	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130761 AVOCA230 230 131154 STONY RIDGE 230 1 283 Open 130761 AVOCA230 230 131154 STONY RIDGE 230 1	-137.7	-159.0	-0.03132	-0.13692	0.06471	265.6	309.6
7	687.9	1588.2	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HC-WC_30&W-F_171 1704 Open 135277 FALCONER 115 200579 WARREN 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	328.8	383.0	0.07883	0.04708	-0.00287	-20.5	-22.5
8	690.6	1590.1	L: 130774 BATH 115 115 131347 HOWARD 115 1 C:130763 HILSD230 230 131154 STONY RIDGE 230 1 287 Open 130763 HILSD230 230 131154 STONY RIDGE 230 1	-137.4	-159.0	-0.03132	0.13692	-0.06471	-263.1	-307.8
9	694.9	1593.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1	-328.1	-383.0	-0.07905	-0.11471	-0.12506	-566.4	-653.3
10	701.0	1597.7	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1	-327.4	-383.0	-0.07927	-0.06471	-263.1	-308.5	



WestCentral

			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11487	-0.12506	-566.4	-654.1					
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00931	0.00000	-44.6	-44.6					
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
11	707.4	1602.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	327.1	383.0	0.07905	0.06471	265.6	311.3				
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.11471	0.12506	536.2	624.7					
12	719.3	1610.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-326.3	-383.0	-0.07883	-0.06471	-263.1	-309.6				
			C:SER:HC-WC_30&W-F_171						1704									
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.04708	-0.00287	-20.5	-22.6					
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11404	-0.12506	-566.4	-656.4					
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00954	0.00000	-44.6	-44.6					
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
13	728.3	1617.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	325.4	383.0	0.07905	0.06471	265.6	312.7				
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.11471	-0.12506	-521.8	-612.9					
14	738.7	1624.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-324.6	-383.0	-0.07905	-0.06471	-263.1	-310.9				
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		-0.11471	0.12506	536.2	628.6					
15	751.1	1633.8	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	122.3	153.0	0.04090	0.02709	85.5	105.8				
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04623	0.29869	796.4	1020.8					
16	755.1	1636.7	L: 135872 SOUR-111	115	135873	SWDN-111	115	1	133.7	159.0	0.03346	0.02597	101.1	120.7				
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272									
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.03678	0.20372	887.9	1041.7					
17	759.5	1639.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-323.0	-383.0	-0.07905	-0.06471	-263.1	-312.2				
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.11471	-0.12506	-521.8	-616.8					
18	776.8	1652.4	L: 130815 HINMN115	115	131611	HARIS115	115	1	-274.4	-306.0	-0.04064	-0.02587	-235.1	-255.2				
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		-0.04944	0.29869	796.4	1028.5					
19	782.2	1656.2	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	247.3	280.0	0.04183	0.02663	206.7	227.6				
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.05090	0.29869	796.4	1030.1					
20	809.4	1675.8	L: 130815 HINMN115	115	131611	HARIS115	115	1	-279.0	-306.0	-0.03338	-0.02587	-235.1	-256.0				
			C:130766 ROBIN230	230	130767	STOLE230	230	1	291									
			Open 130766 ROBIN230	230	130767	STOLE230	230	1		-0.26125	0.02875	168.1	191.4					
21	815.8	1680.5	L: 130815 HINMN115	115	135452	LOCKPORT	115	1	252.0	280.0	0.03436	0.02663	206.7	228.5				
			C:130766 ROBIN230	230	130767	STOLE230	230	1	291									
			Open 130766 ROBIN230	230	130767	STOLE230	230	1		0.26895	0.02875	168.1	191.6					
22	919.2	1755.1	L: 130774 BATH 115	115	131347	HOWARD	115	1	-130.2	-159.0	-0.03132	-0.02246	-101.3	-122.0				
			C:130751 CNDGUA_T	230	130764	MEYER230	230	1	264									
			Open 130751 CNDGUA_T	230	130764	MEYER230	230	1		0.13692	-0.06471	-210.8	-270.3					
23	923.2	1758.0	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	132.7	173.0	0.04367	0.02892	93.4	120.1				
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1		0.04936	0.29869	796.4	1072.2					
24	937.2	1768.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	330.0	383.0	0.05654	0.06471	265.6	326.2				
			C:BUS:WATERCURE_345						1735									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.04490	-0.12506	-566.4	-683.6					
			Open 130757 WATRC345	345	130768	WATRC230	230	1		0.15973	-0.08631	244.2	163.3					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		-0.03651	0.00000	0.0	0.0					
25	958.6	1783.6	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	119.5	153.0	0.03491	0.02709	85.5	111.4				
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272									
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.03837	0.20372	887.9	1083.2					
26	981.0	1799.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-327.5	-383.0	-0.05654	-0.06471	-263.1	-326.6				
			C:BUS:WATERCURE_345						1735									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.04490	-0.12506	-566.4	-689.1					
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.15973	-0.08631	244.2	159.6					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.03651	0.00000	0.0	0.0					
27	981.3	1799.9	L: 131342 BENET115	115	131347	HOWARD	115	1	128.3	159.0	0.03132	0.02246	91.8	113.9				
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	263									

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			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13692	0.06471	266.1	329.6
28	982.0	1800.4	L: 131342 BENET115	115	131347 HOWARD	115	1	128.2	159.0	0.03132	0.02246	91.8	113.9
			C:SER-MEYER_HILLS_D_68										1707
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13692	0.06471	265.6	329.1
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.09584	0.00000	0.5	0.5
29	983.6	1801.6	L: 131342 BENET115	115	131347 HOWARD	115	1	128.2	159.0	0.03132	0.02246	91.8	113.9
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1						283
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13692	0.06471	265.6	329.2
30	994.4	1809.4	L: 131342 BENET115	115	131347 HOWARD	115	1	127.9	159.0	0.03132	0.02246	91.8	114.2
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1						287
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.13692	-0.06471	-263.1	-327.4
31	1008.1	1819.2	L: 130815 HINMN115	115	131611 HARI115	115	1	-271.5	-306.0	-0.03423	-0.02587	-235.1	-261.1
			C:130754 KINTI345	345	149000 ROCH 345	345	1						272
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04104	0.20372	887.9	1093.2
32	1014.4	1823.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	244.3	280.0	0.03524	0.02663	206.7	233.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1						272
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04225	0.20372	887.9	1094.5
33	1016.3	1825.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1270.8	1685.0	0.40753	0.29869	796.4	1100.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1						272
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53428	0.20372	887.9	1094.9
34	1114.7	1896.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-333.4	-430.0	-0.08663			
			Base Case										
35	1119.5	1899.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-945.0	-1207.0	-0.23402			
			Base Case										
36	1160.3	1929.1	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	129.8	173.0	0.03727	0.02892	93.4	126.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1						272
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04097	0.20372	887.9	1124.2
37	1223.0	1974.3	L: 131342 BENET115	115	131347 HOWARD	115	1	120.7	159.0	0.03132	0.02246	91.8	119.3
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1						264
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			-0.13692	-0.06471	-210.8	-289.9
38	1229.6	1979.1	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	119.8	159.0	0.03190	0.02597	101.1	133.0
			C:135850 SOUR-114	115	135861 MORTIMER	115	1						748
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1			0.21887	0.02709	85.5	118.8
39	1233.8	1982.1	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1	118.6	159.0	0.03276	0.02275	73.4	101.5
			C:135860 LAWLER-1	115	135861 MORTIMER	115	1						764
			Open 135860 LAWLER-1	115	135861 MORTIMER	115	1			-0.45214	-0.02216	-99.9	-127.2
40	1236.1	1983.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	299.4	383.0	0.06763	0.06471	265.6	345.6
			C:130755 OAKDL345	345	131128 LAPEER	345	1						276
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			-0.06204	-0.04712	-545.4	-603.6
41	1241.9	1988.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	294.6	383.0	0.07115	0.06471	265.6	345.9
			C:130774 BATH 115	115	131347 HOWARD	115	1						298
			Open 130774 BATH 115	115	131347 HOWARD	115	1			-0.28685	-0.02246	-101.3	-129.2
42	1250.9	1994.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	321.6	430.0	0.08663			
			Base Case										
43	1258.0	1999.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	300.0	383.0	0.06601	0.06471	265.6	347.0
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1						461
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1			-0.05472	-0.02382	-628.6	-658.5
44	1267.4	2006.4	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	289.6	383.0	0.07371	0.06471	265.6	347.6
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						1320
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.03014	0.29869	796.4	1175.0
45	1272.6	2010.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-296.9	-383.0	-0.06763	-0.06471	-263.1	-345.4
			C:130755 OAKDL345	345	131128 LAPEER	345	1						276
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.06204	-0.04712	-545.4	-605.3
46	1276.6	2013.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-292.2	-383.0	-0.07115	-0.06471	-263.1	-345.7
			C:130774 BATH 115	115	131347 HOWARD	115	1						298
			Open 130774 BATH 115	115	131347 HOWARD	115	1			0.28685	-0.02246	-101.3	-130.0
48	1283.6	2018.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-116.0	-173.0	-0.04440	-0.02941	-76.0	-113.8
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						1320
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05019	0.29869	796.4	1179.8
49	1293.5	2025.2	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	134.0	180.0	0.03556	0.02355	102.0	132.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1						1320
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04019	0.29869	796.4	1182.8
50	1295.4	2026.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-297.5	-383.0	-0.06601	-0.06471	-263.1	-346.9
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1						461

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			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		0.05472	-0.02382	-628.6	-659.4		
51	1301.0	2030.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-287.1	-383.0	-0.07371	-0.06471	-263.1	-347.3	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.03014	0.29869	796.4	1185.0
53	1331.4	2052.6	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-98.3	-153.0	-0.04107	-0.02720	-61.3	-97.6	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04642	0.29869	796.4	1194.1
54	1332.0	2053.1	L: 130815 HINMN115	115	131611 HARI5115	115	1	-262.2	-306.0	-0.03291	-0.02587	-235.1	-269.5	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				0.08130	-0.08663	-333.4	-448.8
55	1336.5	2056.3	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1237.5	1685.0	0.33483	0.20372	887.9	1160.1	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.43897	0.29869	796.4	1195.7
58	1338.6	2057.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	234.6	280.0	0.03388	0.02663	206.7	242.4	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.08369	-0.08663	-333.4	-449.4
59	1361.2	2074.1	L: 130815 HINMN115	115	131611 HARI5115	115	1	-261.2	-306.0	-0.03291	-0.02587	-235.1	-270.3	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				-0.08130	0.08663	321.6	439.6
61	1367.7	2078.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	233.7	280.0	0.03388	0.02663	206.7	243.2	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.08369	0.08663	321.6	440.1
63	1374.1	2083.4	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	311.0	430.0	0.08663				
			Base Case											
66	1387.5	2093.1	L: 130815 HINMN115	115	131611 HARI5115	115	1	-260.3	-306.0	-0.03291	-0.02587	-235.1	-270.9	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42		
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				-0.08130	0.08663	311.0	431.2
67	1394.1	2097.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	232.8	280.0	0.03388	0.02663	206.7	243.9	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42		
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				0.08369	0.08663	311.0	431.7
71	1426.2	2121.0	L: 130815 HINMN115	115	131611 HARI5115	115	1	-259.1	-306.0	-0.03291	-0.02587	-235.1	-271.9	
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1					41		
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1				0.08130	-0.08663	-295.3	-418.9
72	1427.4	2121.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	106.6	153.0	0.03251	0.02709	85.5	124.1	
			C:135872 SOUR-111	115	135873 SWDN-111	115	1					782		
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1				0.20897	0.02597	101.1	138.1
74	1432.8	2125.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	231.5	280.0	0.03388	0.02663	206.7	244.9	
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1					41		
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1				-0.08369	-0.08663	-295.3	-419.4
75	1442.3	2132.7	L: 130815 HINMN115	115	131611 HARI5115	115	1	-258.5	-306.0	-0.03291	-0.02587	-235.1	-272.4	
			C:130767 STOLE230	230	130770 SHLDN230	230	1					293		
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				-0.08130	0.08663	288.8	413.7
76	1445.1	2134.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.2	-540.0	-0.10642	-0.08663	-333.4	-458.6	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06626	0.29869	796.4	1228.1
78	1448.9	2137.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	230.9	280.0	0.03388	0.02663	206.7	245.3	
			C:130767 STOLE230	230	130770 SHLDN230	230	1					293		
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.08369	0.08663	288.8	414.3
81	1460.2	2145.6	L: 135860 LAWLER-1	115	135861 MORTIMER	115	1	-136.2	-185.0	-0.03342	-0.02216	-99.9	-132.2	
			C:135861 MORTIMER	115	136213 LAWLER-2	115	1					769		
			Open 135861 MORTIMER	115	136213 LAWLER-2	115	1				-0.49489	0.02275	73.4	106.6
84	1470.2	2152.8	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	126.8	180.0	0.03618	0.02397	94.2	129.5	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1					1320		
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04090	0.29869	796.4	1235.6
89	1495.8	2171.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.8	-540.0	-0.10041	-0.08663	-333.4	-463.0	
			C:SER:HCWC/NWES									1710		
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02617	-0.03526	56.7	4.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					NA		
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10276	-0.12506	-566.4	-753.5
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1					NA		
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00752	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1					NA		
90	1497.0	2172.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-391.2	-540.0	-0.09939	-0.08663	-333.4	-463.1	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					280		

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10201	-0.12506	-566.4	-753.6
91	1508.1	2180.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-566.4	-755.0	-0.12506		
			Base Case										
92	1512.0	2182.9	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-390.0	-540.0	-0.09924	-0.08663	-333.4 -464.4
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579	WARREN	115	1			-0.03207	-0.00287	-20.5 -24.9
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			0.10156	-0.12506	-566.4 -755.5
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			-0.00768	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
99	1528.0	2194.5	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-388.1	-540.0	-0.09939	-0.08663	-333.4 -465.8
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			-0.10201	0.12506	536.2 727.3
104	1542.8	2205.2	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-386.7	-540.0	-0.09939	-0.08663	-333.4 -467.1
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.10201	-0.12506	-521.8 -714.8
107	1554.9	2213.9	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-295.3	-430.0	-0.08663		
			Base Case										
108	1556.0	2214.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	374.4	540.0	0.10642	0.08663	321.6 456.4
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1			0.06626	0.29869	796.4 1261.2
119	1582.5	2233.9	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-113.0	-173.0	-0.03790	-0.02941	-76.0 -122.6
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.04166	0.20372	887.9 1210.3
124	1594.1	2242.2	L: 135452 LOCKPORT	115	135851	SHEL-113	115	1	131.6	180.0	0.03035	0.02355	102.0 139.5
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			0.03336	0.20372	887.9 1212.6
129	1612.2	2255.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.09784	-0.08663	-333.4 -473.1
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.05500	0.20372	887.9 1216.3
130	1613.2	2256.0	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	378.0	540.0	0.10041	0.08663	321.6 461.4
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.02617	-0.03526	56.7 -0.2
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10276	-0.12506	-566.4 -768.2
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00752	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
132	1615.7	2257.8	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	379.4	540.0	0.09939	0.08663	321.6 461.6
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10201	-0.12506	-566.4 -768.5
137	1630.1	2268.2	L: 130767 STOLE230	230	130770	SHLDN230	230	1	288.8	430.0	0.08663		
			Base Case										
139	1630.8	2268.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	378.2	540.0	0.09924	0.08663	321.6 462.9
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.03207	-0.00287	-20.5 -25.2
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10156	-0.12506	-566.4 -770.4
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00768	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
141	1632.0	2269.5	L: 130757 WATRC345	345	130768	WATRC230	230	1	484.1	600.0	0.07104	-0.08631	244.2 103.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.74443	-0.21137	-322.2 -667.1
143	1634.2	2271.2	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1236.9	-1703.0	-0.28524	-0.23402	-945.0 -1327.5
			C:130750 COOPC345	345	147833	MARCY T1	345	1	262				
			Open 130750 COOPC345	345	147833	MARCY T1	345	1			0.42268	-0.12118	-690.4 -888.5
144	1638.6	2274.3	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-95.6	-153.0	-0.03506	-0.02720	-61.3 -105.9
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1			-0.03854	0.20372	887.9 1221.7
149	1646.7	2280.2	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	376.3	540.0	0.09939	0.08663	321.6 464.3
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			0.10201	0.12506	536.2 742.1

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155	1650.9	2283.2	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-88.9	-153.0	-0.03881	-0.02571	-54.0	-96.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.04387	0.29869	796.4 1289.6
160	1656.3	2287.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	363.7	540.0	0.10642	0.08663	311.0	454.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.06626	0.29869	796.4 1291.1
164	1660.4	2290.1	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	103.4	159.0	0.03346	0.02597	101.1	144.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				-0.03678	-0.20372	-64.4 -402.6
166	1661.5	2290.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	374.9	540.0	0.09939	0.08663	321.6	465.6
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10201	-0.12506	-521.8 -729.6
188	1689.2	2310.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	796.4	1301.0	0.29869			
			Base Case										
211	1719.5	2332.7	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.3	540.0	0.10041	0.08663	311.0	459.9
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.02617	-0.03526	56.7 -3.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10276	-0.12506	-566.4 -781.4
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00752	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA					
213	1723.1	2335.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	368.7	540.0	0.09939	0.08663	311.0	460.2
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10201	-0.12506	-566.4 -781.9
230	1732.8	2342.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	370.5	540.0	0.09784	0.08663	321.6	471.7
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.05500	0.20372	887.9 1240.9
233	1738.4	2346.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.5	540.0	0.09924	0.08663	311.0	461.6
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.03207	-0.00287	-20.5 -25.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10156	-0.12506	-566.4 -783.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00768	0.00000	-44.6 -44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA					
237	1741.4	2348.5	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	97.0	153.0	0.03218	0.02709	85.5	132.6
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	767					
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1				-0.18727	-0.02720	-61.3 -108.7
241	1749.5	2354.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	536.2	755.0	0.12506			
			Base Case										
246	1754.1	2357.7	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	365.7	540.0	0.09939	0.08663	311.0	462.9
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.10201	0.12506	536.2 755.6
274	1768.8	2368.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	364.2	540.0	0.09939	0.08663	311.0	464.2
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10201	-0.12506	-521.8 -743.0
309	1782.3	2378.1	L: 131018 LOUNSL15	115	131850 CNYOGL15	115	1	38.7	143.0	0.05853	0.03893	8.8	78.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09274	-0.21137	-322.2 -698.9
355	1796.4	2388.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.8	-540.0	-0.08304	-0.08663	-333.4	-489.1
			C:BUS:WATERCURE_345					1735					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.05133	-0.12506	-566.4 -791.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.11598	-0.08631	244.2 89.2
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.04447	0.00000	0.0 0.0
364	1799.5	2390.4	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-93.1	-173.0	-0.04440	-0.02941	-53.1	-106.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05019	0.29869	796.4 1333.9
379	1801.1	2391.6	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	124.4	180.0	0.03088	0.02397	94.2	137.4
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03395	0.20372	887.9 1254.8
406	1803.5	2393.3	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-348.1	-540.0	-0.10642	-0.08663	-295.3	-451.5
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06626	0.29869	796.4 1335.1

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1105	1814.8	2401.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	265.6	383.0	0.06471				
			Base Case											
1839	1818.7	2404.3	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-36.6	-143.0	-0.05853	-0.03893	-6.7	-77.5	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09274	-0.21137	-322.2	-706.6
2062	1841.9	2421.0	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	359.8	540.0	0.09784	0.08663	311.0	470.5	
			C:130754 KINTI345	345	149000 ROCH	345	1	272						
			Open 130754 KINTI345	345	149000 ROCH	345	1				0.05500	0.20372	887.9	1263.1
2162	1848.3	2425.7	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1254.3	1793.0	0.29144	0.18418	816.7	1157.2	
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62722	-0.17101	-697.6	-1013.7
2714	1853.0	2429.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-263.1	-383.0	-0.06471				
			Base Case											
3516	1858.7	2433.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	331.1	478.0	0.07905	0.06471	266.1	386.4	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11471	-0.12506	-566.4	-798.9
3556	1861.7	2435.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	330.4	478.0	0.07927	0.06471	266.1	386.6	
			C:SER:HCWC/NWES					1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.00556	-0.03526	56.7	-8.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11487	-0.12506	-566.4	-799.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00931	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
3578	1863.9	2437.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	87.9	153.0	0.03491	0.02709	85.5	136.0	
			C:130754 KINTI345	345	147834 NIAG	345	1	271						
			Open 130754 KINTI345	345	147834 NIAG	345	1				-0.03837	-0.20372	-64.4	-444.1
3587	1864.5	2437.3	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-521.8	-755.0	-0.12506				
			Base Case											
3588	1864.7	2437.5	L: 130767 STOLE230	230	130770 SHLDN230	230	1	341.6	540.0	0.10642	0.08663	288.8	450.3	
			C:147834 NIAG	345	149000 ROCH	345	1	1320						
			Open 147834 NIAG	345	149000 ROCH	345	1				0.06626	0.29869	796.4	1353.4
3596	1866.0	2438.4	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.9	153.0	0.03006	0.02709	85.5	136.0	
			C:130764 MEYER230	230	134750 DAIRY230	230	1	288						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.03431	-0.08663	-333.4	-495.1
3628	1875.6	2445.4	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.7	-540.0	-0.10041	-0.08663	-295.3	-457.8	
			C:SER:HCWC/NWES					1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02617	-0.03526	56.7	-9.4
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10276	-0.12506	-566.4	-801.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00752	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
3637	1879.5	2448.2	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.5	153.0	0.03006	0.02709	85.5	136.4	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	460						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.03431	0.08663	321.6	484.5
3639	1880.7	2449.1	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-353.1	-540.0	-0.09939	-0.08663	-295.3	-458.2	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10201	-0.12506	-566.4	-801.6
3647	1886.4	2453.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	329.3	478.0	0.07883	0.06471	266.1	388.2	
			C:SER:HC-WC_30&W-F_171					1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.04708	-0.00287	-20.5	-25.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.11404	-0.12506	-566.4	-802.3
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00954	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
3656	1891.6	2457.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	96.1	153.0	0.03006	0.02709	85.5	136.7	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				0.03431	0.08663	311.0	474.8
3666	1896.3	2460.3	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.8	-540.0	-0.09924	-0.08663	-295.3	-459.6	
			C:SER:HC-WC_30&W-F_171					1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03207	-0.00287	-20.5	-26.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.10156	-0.12506	-566.4	-803.5		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00768	0.00000	-44.6	-44.6		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3671	1900.5	2463.4	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-375.3	-540.0	-0.08667	-0.08663	-333.4	-498.1
			C:SPS:MARCY_AT1_AT2											1699	
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.02517	0.00089	888.4	890.1		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.02517	0.00078	774.5	775.9		
3674	1902.6	2464.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		327.6	478.0	0.07905	0.06471	266.1	389.2
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			0.11471	0.12506	536.2	774.1	
3691	1909.5	2469.9	L: 135850 SOUR-114	115	135861	MORTIMER	115	1		95.6	153.0	0.03006	0.02709	85.5	137.2
			C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41						
			Open 95976 STONYCRK	230	130770	SHLDN230	230	1			-0.03431	-0.08663	-295.3	-460.7	
3695	1911.7	2471.4	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-350.0	-540.0	-0.09939	-0.08663	-295.3	-460.9
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1			-0.10201	0.12506	536.2	775.3	
3698	1917.0	2475.2	*L: 135850 SOUR-114	115	135861	MORTIMER	115	1		95.4	153.0	0.03006	0.02709	85.5	137.4
			C:130767 STOLE230	230	130770	SHLDN230	230	1	293						
			Open 130767 STOLE230	230	130770	SHLDN230	230	1			0.03431	0.08663	288.8	454.9	
3701	1918.3	2476.2	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.9	336.0	0.05115	0.02192	117.7	159.7
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	263						
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1			0.45175	0.06471	266.1	390.2	
3703	1918.6	2476.4	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.9	336.0	0.05115	0.02192	117.7	159.7
			C:SER:MEYER_HILLSD_68												1707
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1			0.45175	0.06471	265.6	389.7	
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1			0.41292	0.00000	0.5	0.5	
3704	1922.8	2479.5	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		237.6	336.0	0.05115	0.02192	117.7	159.8
			C:130761 AVOCA230	230	131154	STONY RIDGE	230	1	283						
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1			0.45175	0.06471	265.6	390.0	
3705	1923.4	2479.9	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		325.9	478.0	0.07905	0.06471	266.1	390.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			-0.11471	-0.12506	-521.8	-762.4	
3707	1926.5	2482.1	L: 95976 STONYCRK	230	130770	SHLDN230	230	1		-348.5	-540.0	-0.09939	-0.08663	-295.3	-462.2
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.10201	-0.12506	-521.8	-762.8	
3717	1938.4	2490.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		379.0	540.0	0.08304	0.08663	321.6	489.6
			C:BUS:WATERCURE_345												1735
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.05133	-0.12506	-566.4	-808.8	
			Open 130757 WATRC345	345	130768	WATRC230	230	1			0.11598	-0.08631	244.2	76.9	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1			-0.04447	0.00000	0.0	0.0	
3720	1940.4	2492.2	L: 130767 STOLE230	230	130770	SHLDN230	230	1		345.2	540.0	0.10041	0.08663	288.8	456.9
			C:SER:HCWC/NWES												1710
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.02617	-0.03526	56.7	-11.7	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10276	-0.12506	-566.4	-809.1	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00752	0.00000	-44.6	-44.6	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3724	1944.7	2495.2	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1		236.5	336.0	0.05115	0.02192	117.7	160.3
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	287						
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1			-0.45175	-0.06471	-263.1	-388.9	
3727	1946.3	2496.4	L: 130767 STOLE230	230	130770	SHLDN230	230	1		346.6	540.0	0.09939	0.08663	288.8	457.4
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.10201	-0.12506	-566.4	-809.8	
3734	1952.0	2500.5	*L: 130764 MEYER230	230	134750	DAIRY230	230	1		-370.8	-540.0	-0.08667	-0.08663	-333.4	-502.5
			C:HQ-NY-765-New												1880
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1			-0.02517	0.00089	888.4	890.1	
			Open 147827 MARCY765	765	147833	MARCY T1	345	2			-0.02517	0.00078	774.5	776.0	
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1			0.00000	-0.00084	-151.0	-152.6	
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						





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				C:130754 KINTI345	345	147834 NIAG 345	345	1	271										
				Open 130754 KINTI345		345	147834 NIAG 345	345	1										
3791	2067.0	2583.5	L:	95976 STONYCRK	230	131122 WTHRS230	230	1		368.4	540.0	0.08304		0.08663	311.0	490.0			
				C:BUS:WATERCURE_345					1735										
				Open 130757 WATRC345		345	135249 ARMENMTN	345	1										
				Open 130757 WATRC345		345	130768 WATRC230	230	1										
				Open 130755 OAKDL345		345	130757 WATRC345	345	1										
3792	2068.6	2584.6	L:	130767 STOLE230	230	130770 SHLDN230	230	1		337.6	540.0	0.09784		0.08663	288.8	468.0			
				C:130754 KINTI345	345	149000 ROCH 345	345	1	272										
				Open 130754 KINTI345		345	149000 ROCH 345	345	1										
3793	2070.5	2586.1	*L:	130815 HINMN115	115	135452 LOCKPORT	115	1		217.5	280.0	0.03016		0.02663	206.7	261.9			
				C:147842 NIAGAR2W	230	147850 NIAG115E	115	1	1334										
				Open 147842 NIAGAR2W		230	147850 NIAG115E	115	1										
3799	2081.3	2593.9	L:	125001 ROCK TAV	345	130750 COOPC345	345	2		-1200.9	-1793.0	-0.28450		-0.17101	-697.6	-1053.6			
				C:130750 COOPC345	345	146754 MDTN TAP	345	1	261										
				Open 130750 COOPC345		345	146754 MDTN TAP	345	1										
3805	2088.1	2598.8	*L:	131122 WTHRS230	230	134750 DAIRY230	230	1		359.0	540.0	0.08667		0.08663	321.6	502.5			
				C:HQ-NY-765-New					1880										
				Open 147827 MARCY765		765	147828 MASS 765	765	1										
				Open 147828 MASS 765		765	180819 CHA-NY	765	1										
				Open 147827 MARCY765		765	147833 MARCY T1	345	1										
				Open 147827 MARCY765		765	147833 MARCY T1	345	2										
				Open 156 MCY765SW		765	147827 MARCY765	765	1										
				Open 147838 MASS230B		230	147839 MOSES E	230	1										
				Open 147828 MASS 765		765	147838 MASS230B	230	1										
				Open 147837 MASS230A		230	147839 MOSES E	230	1										
				Open 147828 MASS 765		765	147837 MASS230A	230	1										
				Open 158 MS765SW2		765	147828 MASS 765	765	1										
				Open 157 MS765SW1		765	147828 MASS 765	765	1										
				Decrease bus 180001 BEA-DLX		13.8	generation by	100.0	percent dispatch										
				Set bus 181319 CHAT G3		120	load to	357.0	MW dispatch										
				Decrease bus 180002 BEA-DL		13.8	generation by	100.0	percent dispatch										
				Set bus 181419 CHAT G4		120	load to	357.0	MW dispatch										
3809	2096.0	2604.4	L:	147834 NIAG 345	345	149000 ROCH 345	345	1		830.8	1685.0	0.40753		0.29869	796.4	1422.5			
				C:130754 KINTI345	345	147834 NIAG 345	345	1	271										
				Open 130754 KINTI345		345	147834 NIAG 345	345	1										
3811	2100.2	2607.4	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		105.6	173.0	0.03210		0.02892	93.4	154.1			
				C:130764 MEYER230	230	134750 DAIRY230	230	1	288										
				Open 130764 MEYER230		230	134750 DAIRY230	230	1										
3815	2113.6	2617.2	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		105.2	173.0	0.03210		0.02892	93.4	154.5			
				C:131122 WTHRS230	230	134750 DAIRY230	230	1	460										
				Open 131122 WTHRS230		230	134750 DAIRY230	230	1										
3823	2125.8	2625.9	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.8	173.0	0.03210		0.02892	93.4	154.9			
				C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42										
				Open 95976 STONYCRK		230	131122 WTHRS230	230	1										
3829	2142.2	2637.8	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.8	-336.0	-0.05096		-0.02170	-106.5	-153.0			
				C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	263										
				Open 130751 CNDGUA_T		230	130761 AVOCA230	230	1										
3830	2142.6	2638.1	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.8	-336.0	-0.05096		-0.02170	-106.5	-153.0			
				C:SER:MEYER_HILLSD_68					1707										
				Open 130761 AVOCA230		230	131154 STONY RIDGE	230	1										
				Open 130751 CNDGUA_T		230	130761 AVOCA230	230	1										
3831	2143.7	2638.9	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.2	173.0	0.03210		0.02892	93.4	155.4			
				C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41										
				Open 95976 STONYCRK		230	130770 SHLDN230	230	1										
3833	2146.9	2641.1	L:	130826 MEYER115	115	131343 MEYER M4	34.5	1		-226.6	-336.0	-0.05096		-0.02170	-106.5	-153.1			
				C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	283										
				Open 130761 AVOCA230		230	131154 STONY RIDGE	230	1										
3836	2151.1	2644.2	L:	135859 LAPPINS1	115	135866 NLEROYTA	115	1		104.0	173.0	0.03210		0.02892	93.4	155.6			
				C:130767 STOLE230	230	130770 SHLDN230	230	1	293										
				Open 130767 STOLE230		230	130770 SHLDN230	230	1										
3838	2156.6	2648.2	L:	125001 ROCK TAV	345	130750 COOPC345	345	2		-1182.4	-1793.0	-0.28314		-0.17101	-697.6	-1066.5			
				C:SER:CMT34&MTR34					1695										
				Open 130750 COOPC345		345	146754 MDTN TAP	345	1										

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			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1		0.05247	-0.14517	-406.3	-719.4		
3841	2159.7	2650.4	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	352.8	540.0	0.08667	0.08663	311.0	498.1	
			C:SPS:MARCY_AT1_AT2					1699							
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02517	0.00089	888.4	890.3
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02517	0.00078	774.5	776.1
3847	2168.8	2657.0	L: 130826 MEYER115	115	131343	MEYER M4	34.5	1	-225.5	-336.0	-0.05096	-0.02170	-106.5	-153.6	
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	287						
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1				0.45215	-0.06471	-263.1	-403.4
3861	2187.0	2670.1	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1	-90.1	-173.0	-0.03790	-0.02941	-53.1	-117.4	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272						
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				-0.04166	0.20372	887.9	1333.4
3863	2193.8	2675.0	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1014.5	-1703.0	-0.31385	-0.23402	-945.0	-1458.4	
			C:130753 FRASR345	345	147831	GILB 345	345	1	270						
			Open 130753 FRASR345	345	147831	GILB 345	345	1				-0.37434	0.21326	185.5	653.4
3871	2211.3	2687.7	*L: 95976 STONYCRK	230	131122	WTHRS230	230	1	348.3	540.0	0.08667	0.08663	311.0	502.5	
			C:HQ-NY-765-New					1880							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02517	0.00089	888.4	890.4
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02517	0.00078	774.5	776.2
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				0.00000	-0.00084	-151.0	-152.9
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				0.00239	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
3884	2225.8	2698.1	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	102.3	173.0	0.03176	0.02892	93.4	157.8	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	748						
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1				0.10458	0.02709	85.5	145.8
3885	2226.7	2698.8	*L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	103.1	173.0	0.03139	0.02892	93.4	157.8	
			C:135851 SHEL-113	115	135874	SWDN-113	115	1	750						
			Open 135851 SHEL-113	115	135874	SWDN-113	115	1				0.10310	0.02397	94.2	147.6
3890	2229.2	2700.6	L: 130836 N.WAV115	115	131018	LOUNGS115	115	1	42.5	173.0	0.05853	0.03893	12.7	99.4	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09274	-0.21137	-322.2	-793.4
3897	2240.2	2708.5	L: 135861 MORTIMER	115	135873	SWDN-111	115	1	-79.3	-153.0	-0.03290	-0.02720	-61.3	-122.3	
			C:135850 SOUR-114	115	135861	MORTIMER	115	1	748						
			Open 135850 SOUR-114	115	135861	MORTIMER	115	1				-0.21015	0.02709	85.5	146.2
3910	2255.6	2719.7	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-352.7	-540.0	-0.08304	-0.08663	-295.3	-490.7	
			C:BUS:WATERCURE_345					1735							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.05133	-0.12506	-566.4	-848.5
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.11598	-0.08631	244.2	49.5
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.04447	0.00000	0.0	0.0
3925	2274.2	2733.0	L: 130750 COOPC345	345	147833	MARCY T1	345	1	-932.9	-1345.0	-0.18122	-0.12118	-690.4	-966.0	
			C:130750 COOPC345	345	130753	FRASR345	345	1	258						
			Open 130750 COOPC345	345	130753	FRASR345	345	1				0.25656	-0.23402	-945.0	-1477.2
3943	2290.2	2744.6	L: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	640.5	927.0	0.12510	0.12506	536.2	822.6	
			C:HQ-NY-765-New					1880							
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833	MARCY T1	345	1				0.02391	0.00089	888.4	890.4
			Open 147827 MARCY765	765	147833	MARCY T1	345	2				0.02391	0.00078	774.5	776.2
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839	MOSES E	230	1				-0.00000	-0.00084	-151.0	-152.9
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1				-0.05349	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						

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Decrease bus 180001 BEA-DLX      13.8 generation by 100.0 percent dispatch
Set bus 181319 CHAT G3          120 load to 357.0 MW dispatch
Decrease bus 180002 BEA-DL      13.8 generation by 100.0 percent dispatch
Set bus 181419 CHAT G4          120 load to 357.0 MW dispatch
3991  2334.1  2776.3 L: 130767 STOLE230      230 130770 SHLDN230      230 1
C:BUS:WATERCURE_345
Open 130757 WATRC345          345 135249 ARMENMTN      345 1
Open 130757 WATRC345          345 130768 WATRC230      230 1
Open 130755 OAKDL345          345 130757 WATRC345      345 1
3992  2336.2  2777.8 L: 130757 WATRC345          345 135249 ARMENMTN      345 1
C:SIN:250
Open 100508 SANDB115          115 100509 SB RCTOR      115 2
Remove unit 3 from bus 103563 MILL#3      24.0 1276.0 MW dispatch
4006  2340.5  2780.9 L: 95976 STONYCRK      230 130770 SHLDN230      230 1
C:SPS:MARCY_AT1_AT2
Open 147827 MARCY765          765 147833 MARCY T1      345 1
Open 147827 MARCY765          765 147833 MARCY T1      345 2
4013  2344.1  2783.5 L: 130757 WATRC345          345 135249 ARMENMTN      345 1
C:GEN:SEABROOK
Remove unit 1 from bus 102869 SBRK G1      25.0 1318.0 MW dispatch
4014  2344.1  2783.5 L: 130757 WATRC345          345 135249 ARMENMTN      345 1
C:GEN:SEAB&OMS
Open 100508 SANDB115          115 100509 SB RCTOR      115 2
Remove unit 1 from bus 102869 SBRK G1      25.0 1318.0 MW dispatch
4304  2381.5  2810.5 L: 130757 WATRC345          345 135249 ARMENMTN      345 1
C:GEN:MILLST 3
Remove unit 3 from bus 103563 MILL#3      24.0 1276.0 MW dispatch
4305  2381.5  2810.5 L: 130757 WATRC345          345 135249 ARMENMTN      345 1
C:GEN:MLS3&OMS
Open 100508 SANDB115          115 100509 SB RCTOR      115 2
Remove unit 3 from bus 103563 MILL#3      24.0 1276.0 MW dispatch
4333  2382.2  2811.0 L: 135861 MORTIMER          115 135873 SWDN-111      115 1
C:135861 MORTIMER          115 135874 SWDN-113      115 1
Open 135861 MORTIMER          115 135874 SWDN-113      115 1
5405  2386.2  2813.9 L: 147834 NIAG 345          345 149000 ROCH 345      345 1
C:HQ-NY-765-New
Open 147827 MARCY765          765 147828 MASS 765      765 1
Open 147828 MASS 765          765 180819 CHA-NY      765 1
Open 147827 MARCY765          765 147833 MARCY T1      345 1
Open 147827 MARCY765          765 147833 MARCY T1      345 2
Open 156 MCY765SW            765 147827 MARCY765      765 1
Open 147838 MASS230B          230 147839 MOSES E      230 1
Open 147828 MASS 765          765 147838 MASS230B      230 1
Open 147837 MASS230A          230 147839 MOSES E      230 1
Open 147828 MASS 765          765 147837 MASS230A      230 1
Open 158 MS765SW2            765 147828 MASS 765      765 1
Open 157 MS765SW1            765 147828 MASS 765      765 1
Decrease bus 180001 BEA-DLX      13.8 generation by 100.0 percent dispatch
Set bus 181319 CHAT G3          120 load to 357.0 MW dispatch
Decrease bus 180002 BEA-DL      13.8 generation by 100.0 percent dispatch
Set bus 181419 CHAT G4          120 load to 357.0 MW dispatch
5587  2392.0  2818.1*L: 95976 STONYCRK      230 130770 SHLDN230      230 1
C:HQ-NY-765-New
Open 147827 MARCY765          765 147828 MASS 765      765 1
Open 147828 MASS 765          765 180819 CHA-NY      765 1
Open 147827 MARCY765          765 147833 MARCY T1      345 1
Open 147827 MARCY765          765 147833 MARCY T1      345 2
Open 156 MCY765SW            765 147827 MARCY765      765 1
Open 147838 MASS230B          230 147839 MOSES E      230 1
Open 147828 MASS 765          765 147838 MASS230B      230 1
Open 147837 MASS230A          230 147839 MOSES E      230 1
Open 147828 MASS 765          765 147837 MASS230A      230 1
Open 158 MS765SW2            765 147828 MASS 765      765 1
Open 157 MS765SW1            765 147828 MASS 765      765 1

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				Decrease bus 180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319	CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419	CHAT G4	120	load to	357.0	MW dispatch							
5620	2394.7	2820.1	L:	95646	DEANWIND	230	130772	SHRED230	230	1	175.3	440.0	0.11054	0.05691	93.6	229.8
				C:130755	OAKDL345	345	130757	WATRC345	345	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5688	2405.2	2827.6	L:	95593	CHERYFLT	345	200769	HOMER CY	345	1	-626.1	-927.0	-0.12510	-0.12506	-521.8	-822.6
				C:HQ-NY-765-New												
				Open 147827	MARCY765	765	147828	MASS 765	765	1						
				Open 147828	MASS 765	765	180819	CHA-NY	765	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2	-0.02391	0.00089			888.4	890.5
				Open 156	MCY765SW	765	147827	MARCY765	765	1					774.5	776.3
				Open 147838	MASS230B	230	147839	MOSES E	230	1						
				Open 147828	MASS 765	765	147838	MASS230B	230	1						
				Open 147837	MASS230A	230	147839	MOSES E	230	1						
				Open 147828	MASS 765	765	147837	MASS230A	230	1						
				Open 158	MS765SW2	765	147828	MASS 765	765	1						
				Open 157	MS765SW1	765	147828	MASS 765	765	1						
				Decrease bus 180001	BEA-DLX	13.8	generation by	100.0	percent dispatch							
				Set bus 181319	CHAT G3	120	load to	357.0	MW dispatch							
				Decrease bus 180002	BEA-DL	13.8	generation by	100.0	percent dispatch							
				Set bus 181419	CHAT G4	120	load to	357.0	MW dispatch							
5692	2406.5	2828.5	L:	130764	MEYER230	230	131343	MEYER M4	34.5	1	212.9	336.0	0.05115	0.02192	117.7	170.4
				C:130751	CNDGUA_T	230	130764	MEYER230	230	1						
				Open 130751	CNDGUA_T	230	130764	MEYER230	230	1						
5699	2409.3	2830.5	L:	130787	CODNT115	115	130830	MONTR115	115	1	-17.9	-144.0	-0.05235	-0.03508	8.4	-76.1
				C:130755	OAKDL345	345	130757	WATRC345	345	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5701	2410.3	2831.3	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-602.8	-927.0	-0.13452	-0.12506	-566.4	-867.8
				C:130764	MEYER230	230	134750	DAIRY230	230	1						
				Open 130764	MEYER230	230	134750	DAIRY230	230	1						
5710	2415.6	2835.1	L:	130767	STOLE230	230	130770	SHLDN230	230	1	330.6	540.0	0.08667	0.08663	288.8	498.1
				C:SPS:MARCY_AT1_AT2												
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2						
5717	2419.9	2838.2	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-601.5	-927.0	-0.13452	-0.12506	-566.4	-869.0
				C:131122	WTHRS230	230	134750	DAIRY230	230	1						
				Open 131122	WTHRS230	230	134750	DAIRY230	230	1						
5736	2428.5	2844.4	L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-600.3	-927.0	-0.13452	-0.12506	-566.4	-870.1
				C:95976	STONYCRK	230	131122	WTHRS230	230	1						
				Open 95976	STONYCRK	230	131122	WTHRS230	230	1						
5737	2429.5	2845.1	L:	131018	LOUNSI115	115	131850	CNYOG115	115	1	10.8	143.0	0.05443	0.03893	8.8	103.4
				C:BUS:WATERCURE_345												
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1						
				Open 130757	WATRC345	345	130768	WATRC230	230	1						
				Open 130755	OAKDL345	345	130757	WATRC345	345	1						
5743	2433.2	2847.8	L:	130750	COOPC345	345	130753	FRASR345	345	1	-1078.4	-1703.0	-0.25670	-0.23402	-945.0	-1514.4
				C:137451	LEEDS 3	345	147831	GILB 345	345	1						
				Open 137451	LEEDS 3	345	147831	GILB 345	345	1						
5759	2439.6	2852.4	L:	147834	NIAG 345	345	149000	ROCH 345	345	1	955.9	1685.0	0.29885	0.29869	796.4	1525.1
				C:SPS:MARCY_AT1_AT2												
				Open 147827	MARCY765	765	147833	MARCY T1	345	1						
				Open 147827	MARCY765	765	147833	MARCY T1	345	2						
5770	2441.2	2853.6	*L:	130757	WATRC345	345	135249	ARMENMTN	345	1	-598.6	-927.0	-0.13452	-0.12506	-566.4	-871.7
				C:95976	STONYCRK	230	130770	SHLDN230	230	1						
				Open 95976	STONYCRK	230	130770	SHLDN230	230	1						
5801	2458.4	2866.0	L:	137451	LEEDS 3	345	147831	GILB 345	345	1	-1352.8	-1912.0	-0.22747	-0.15101	-888.0	-1259.2
				C:BUS:N.S._99												
				Open 137453	N.SCOT99	345	147831	GILB 345	345	1						
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1						
				Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1						
				Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2						

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			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12345	0.00000	3.4	3.4	
5803	2459.5	2866.8	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-168.1	-440.0	-0.11054	-0.05691	-86.4	-226.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.25372	-0.21137	-322.2	-842.1	
5805	2461.9	2868.5	L: 131243 SLEIG115	115	149004 S121 B#2	115	1	-107.5	-189.0	-0.03310	-0.02292	-98.5	-154.9
			C:136150 CLAY	345	149001 PANNELL3	345	2	794					
			Open 136150 CLAY	345	149001 PANNELL3	345	2		0.03858	-0.26397	-234.8	-884.7	
5806	2463.0	2869.3	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	167.7	440.0	0.11054	0.05691	86.0	226.2
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.25372	-0.21137	-322.2	-842.8	
5815	2467.1	2872.3	L: 131243 SLEIG115	115	149004 S121 B#2	115	1	-107.5	-189.0	-0.03305	-0.02292	-98.5	-155.0
			C:136150 CLAY	345	149001 PANNELL3	345	1	793					
			Open 136150 CLAY	345	149001 PANNELL3	345	1		0.03851	-0.26312	-234.1	-883.2	
5816	2467.2	2872.3	*L: 130767 STOLE230	230	130770 SHLDN230	230	1	326.2	540.0	0.08667	0.08663	288.8	502.5
			C:HQ-NY-765-New					1880					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02517	0.00089	888.4	890.6	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02517	0.00078	774.5	776.4	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00084	-151.0	-153.1	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.00239	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
5820	2468.6	2873.4	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-8.6	-143.0	-0.05443	-0.03893	-6.7	-102.8
			C:BUS:WATERCURE_345					1735					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.04980	-0.12506	-566.4	-875.1	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.10748	-0.08631	244.2	31.2	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04797	0.00000	0.0	0.0	
5834	2474.4	2877.5	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-19.3	143.0	0.06557	0.03893	8.8	105.1
			C:BUS:WATERCURE_230					1736					
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		-0.22227	-0.05691	-51.8	-192.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.16220	-0.08631	244.2	30.7	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		0.11570	0.00000	0.4	0.4	
5869	2487.8	2887.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-78.7	-173.0	-0.03790	-0.02941	-76.0	-149.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		0.04166	-0.20372	-64.4	-571.2	
5908	2499.4	2895.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	104.1	180.0	0.03035	0.02355	102.0	160.9
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		-0.03336	-0.20372	-64.4	-573.5	
5966	2506.8	2901.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	21.4	-143.0	-0.06557	-0.03893	-6.7	-104.3
			C:BUS:WATERCURE_230					1736					
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		0.22227	-0.05691	-51.8	-194.5	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.16220	-0.08631	244.2	27.9	
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.11570	0.00000	0.4	0.4	
6060	2512.8	2905.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1109.6	-1724.0	-0.24449	-0.12699	-626.3	-945.4
			C:BUS:N.S._77					1717					
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.60280	-0.11529	-450.3	-740.0	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.39243	-0.00283	256.8	249.7	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.32357	0.16566	800.7	1217.0	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.25034	-0.02681	26.2	-41.1	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-0.00000	-0.12700	-627.4	-946.5	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.18840	0.00000	-250.0	-250.0	
7554	2543.9	2927.7	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-63.8	-153.0	-0.03506	-0.02720	-61.3	-130.5
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1		0.03854	-0.20372	-64.4	-582.6	
7566	2549.2	2931.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	290.1	478.0	0.07371	0.06471	266.1	431.0

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03014	0.29869	796.4	1557.9					
7580	2557.0	2937.1	L: 136150 CLAY	345	149001 PANNELL3	345	2		-370.1	-1434.0	-0.41608		-0.26397	-234.8	-909.8				
			C:136150 CLAY	345	149001 PANNELL3	345	1	793											
			Open 136150 CLAY	345	149001 PANNELL3	345	1					0.57810	-0.26312	-234.1	-906.9				
7585	2557.7	2937.7	L: 130762 GARDV230	230	130767 STOLE230	230	1		262.7	478.0	0.08418		0.05788	120.6	268.7				
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	292											
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1						-0.47479	-0.05538	-299.2	-440.9			
7588	2558.1	2938.0	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-275.8	-478.0	-0.07905		-0.06471	-210.8	-376.3				
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						0.11471	-0.12506	-566.4	-886.3			
7593	2559.2	2938.8	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-275.1	-478.0	-0.07927		-0.06471	-210.8	-376.4				
			C:SER:HCWC/NWES					1710											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						0.00556	-0.03526	56.7	-33.5			
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1												
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						0.11487	-0.12506	-566.4	-886.5			
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1												
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						-0.00931	0.00000	-44.6	-44.6			
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1												
7599	2561.6	2940.5	L: 136150 CLAY	345	149001 PANNELL3	345	1		-369.6	-1434.0	-0.41551		-0.26312	-234.1	-908.1				
			C:136150 CLAY	345	149001 PANNELL3	345	2	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	2						0.57730	-0.26397	-234.8	-911.0			
7615	2569.7	2946.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1		295.2	478.0	0.07115		0.06471	266.1	432.4				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1							-0.28685	-0.02246	-101.3	-159.1		
7631	2573.4	2949.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1189.5	-1792.0	-0.23411		-0.17737	-898.1	-1354.5				
			C:SIN:160					1773											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1						-0.34253	0.16566	800.7	1227.0			
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1						-0.19630	0.00000	87.6	87.6			
			Open 137235 PORTER 1	115	137246 VALLEY	115	1						-0.00028	-0.00015	39.5	39.1			
7632	2573.5	2949.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1		-1189.5	-1792.0	-0.23411		-0.17737	-898.1	-1354.5				
			C:SIN:150					1772											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1						-0.34253	0.16566	800.7	1227.0			
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1						-0.19632	0.00000	87.6	87.6			
			Open 137235 PORTER 1	115	147905 ILLION	115	1						-0.00018	-0.00009	44.6	44.3			
7635	2574.2	2949.6	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1053.8	-1703.0	-0.25221		-0.23402	-945.0	-1547.4				
			C:BUS:N.S._99					1718											
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1						0.12288	-0.06226	-454.1	-614.3			
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1						0.05425	-0.17737	-898.1	-1354.6			
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1						0.00125	-0.00265	272.2	265.4			
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2						0.00725	-0.12699	-626.3	-953.2			
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1						-0.00473	0.00000	3.4	3.4			
7644	2577.6	2952.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		604.6	927.0	0.12506		0.12506	536.2	858.6				
			C:SIN:250					1780											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						0.00000	0.00000	-0.0	-0.0			
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW														
7649	2580.4	2954.1	L: Interface 73 MarcySouthS						1635.4	2552.0	0.35519								
			Base Case																
7650	2580.7	2954.3	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		80.3	159.0	0.03049		0.02275	73.4	132.1				
			C:136150 CLAY	345	149001 PANNELL3	345	2	794											
			Open 136150 CLAY	345	149001 PANNELL3	345	2						-0.02934	-0.26397	-234.8	-916.0			
7651	2581.4	2954.8	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1		21.9	143.0	0.04690		0.03893	8.8	109.3				
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37											
			Open 95646 DEANWIND	230	130772 SHRED230	230	1						0.14020	0.05691	93.6	240.5			
7657	2585.2	2957.5	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1		80.3	159.0	0.03045		0.02275	73.4	132.2				
			C:136150 CLAY	345	149001 PANNELL3	345	1	793											
			Open 136150 CLAY	345	149001 PANNELL3	345	1						-0.02929	-0.26312	-234.1	-914.3			
7659	2585.5	2957.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		603.6	927.0	0.12506		0.12506	536.2	859.6				
			C:GEN:SEAB&OMS					1677											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2						0.00000	0.00000	-0.0	-0.0			
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW														
7660	2585.5	2957.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		603.6	927.0	0.12506		0.12506	536.2	859.6				
			C:GEN:SEABROOK					1675											
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW														

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7669	2587.7	2959.3	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-274.0	-478.0	-0.07883	-0.06471	-210.8	-378.2	
			C:SER:HC-WC_30&W-F_171									1704		
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04708	-0.00287	-20.5	-27.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11404	-0.12506	-566.4	-890.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00954	0.00000	-44.6	-44.6
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA					
7670	2587.9	2959.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1	8.5	-143.0	-0.05853	-0.03893	38.3	-62.4	
			C:130755 OAKDL345	345	130757 WATRC345	345	1					273		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.09274	-0.21137	-322.2	-869.2
7675	2590.5	2961.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-88.5	-173.0	-0.03264	-0.02941	-76.0	-152.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				0.03725	-0.08663	-333.4	-557.8
7704	2601.9	2969.6	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-272.3	-478.0	-0.07905	-0.06471	-210.8	-379.2	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.11471	0.12506	536.2	861.6
7705	2602.5	2970.0	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-194.4	-317.0	-0.04709	-0.02111	-121.7	-176.7	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1					72		
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17898	-0.14517	-406.3	-784.1
7707	2602.8	2970.3	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.1	
			C:130765 OAKDL230	230	130772 SHRED230	230	1					289		
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14020	-0.05691	-86.4	-234.5
7710	2603.6	2970.8	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.2	
			C:SER:OAKDALE_WATRC230									1696		
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14020	-0.05691	-86.4	-234.6
			Open 130765 OAKDL230	230	130838 OAKDLL115	115	1				-0.09685	0.00000	0.4	0.4
7713	2603.9	2971.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-88.0	-173.0	-0.03264	-0.02941	-76.0	-152.6	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				-0.03725	0.08663	321.6	547.2
7714	2604.0	2971.1	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	20.9	143.0	0.04690	0.03893	8.8	110.2	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1					290		
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.14020	0.05691	86.0	234.2
7718	2606.1	2972.6	L: 130762 GARDV230	230	130767 STOLE230	230	1	263.5	478.0	0.08231	0.05788	120.6	271.5	
			C:130766 ROBIN230	230	130767 STOLE230	230	1					291		
			Open 130766 ROBIN230	230	130767 STOLE230	230	1				0.84963	0.02875	168.1	243.1
7727	2608.1	2974.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	292.4	478.0	0.07115	0.06471	266.1	434.9	
			C:131342 BENET115	115	131347 HOWARD	115	1					471		
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28685	0.02246	91.8	150.4
7728	2608.4	2974.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	330.5	478.0	0.05654	0.06471	266.1	434.9	
			C:BUS:WATERCURE_345									1735		
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04490	-0.12506	-566.4	-892.6
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15973	-0.08631	244.2	19.1
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.03651	0.00000	0.0	0.0
7735	2609.6	2975.1	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	-25.7	143.0	0.06464	0.03893	8.8	110.4	
			C:130763 HILSD230	230	130768 WATRC230	230	1					286		
			Open 130763 HILSD230	230	130768 WATRC230	230	1				0.17953	0.14322	-192.1	181.7
7738	2610.6	2975.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	861.3	1685.0	0.31553	0.29869	796.4	1576.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1					288		
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.19440	-0.08663	-333.4	-559.6
7755	2616.1	2979.8	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-87.6	-173.0	-0.03264	-0.02941	-76.0	-153.0	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1					42		
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				-0.03725	0.08663	311.0	537.6
7761	2617.9	2981.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	859.0	1685.0	0.31553	0.29869	796.4	1578.4	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1					460		
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.19440	0.08663	321.6	548.4
7781	2621.5	2983.7	*L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	263.9	478.0	0.08166	0.06471	266.1	435.7	
			C:LKWANA-OXBW									1754		
			Open 417 OXBOW	230	3070 LACKAWNA	230	1				-0.12140	-0.13967	17.9	-348.3
7787	2622.8	2984.7	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-270.7	-478.0	-0.07905	-0.06471	-210.8	-380.5	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1					1451		
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.11471	-0.12506	-521.8	-849.8
7788	2622.9	2984.7	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	599.0	927.0	0.12506	0.12506	536.2	864.2	
			C:GEN:MILLST 3									1674		

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				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7789	2622.9	2984.7	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				599.0	927.0	0.12506		0.12506	536.2	864.2
				C:GEN:MLS3&OMS										
				Open 100508 SANDB115 115 100509 SB RCTOR 115 2						0.00000	0.00000		-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch						
7801	2624.5	2985.9	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				856.9	1685.0	0.31553		0.29869	796.4	1580.3
				C: 95976 STONYCRK 230 131122 WTHRS230 230 1 42										
				Open 95976 STONYCRK 230 131122 WTHRS230 230 1						0.19440	0.08663		311.0	538.3
7811	2626.8	2987.6	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-19.8	-143.0	-0.04690		-0.03893	-6.7	-108.9
				C: 95646 DEANWIND 230 130772 SHRED230 230 1 37										
				Open 95646 DEANWIND 230 130772 SHRED230 230 1						-0.14020	0.05691		93.6	243.0
7815	2627.6	2988.1	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				900.2	1685.0	0.29869		0.29869	796.4	1581.3
				C:GEN:GINNA										
				Remove unit 1 from bus 149140 GINNA 19	19.0	582.0	MW	dispatch						
7881	2632.8	2991.9	L:	130826 MEYER115 115 131343 MEYER M4 34.5 1				-201.8	-336.0	-0.05096		-0.02170	-106.5	-163.7
				C:130751 CNDGUA_T 230 130764 MEYER230 230 1 264										
				Open 130751 CNDGUA_T 230 130764 MEYER230 230 1						0.45215	-0.06471		-210.8	-381.2
7898	2634.0	2992.7	L:	135862 MUMFORD1 115 135866 NLEROYTA 115 1				-87.0	-173.0	-0.03264		-0.02941	-76.0	-153.5
				C: 95976 STONYCRK 230 130770 SHLDN230 230 1 41										
				Open 95976 STONYCRK 230 130770 SHLDN230 230 1						0.03725	-0.08663		-295.3	-523.5
7903	2634.1	2992.8	L:	147834 NIAG 345 345 149000 ROCH 345 345 1				853.8	1685.0	0.31553		0.29869	796.4	1583.2
				C: 95976 STONYCRK 230 130770 SHLDN230 230 1 41										
				Open 95976 STONYCRK 230 130770 SHLDN230 230 1						-0.19440	-0.08663		-295.3	-523.5
7910	2634.8	2993.3	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				572.6	927.0	0.13452		0.12506	536.2	865.7
				C:130764 MEYER230 230 134750 DAIRY230 230 1 288										
				Open 130764 MEYER230 230 134750 DAIRY230 230 1						-0.10911	-0.08663		-333.4	-561.7
7958	2638.2	2995.7	*L:	147834 NIAG 345 345 149000 ROCH 345 345 1				852.6	1685.0	0.31553		0.29869	796.4	1584.4
				C:130767 STOLE230 230 130770 SHLDN230 230 1 293										
				Open 130767 STOLE230 230 130770 SHLDN230 230 1						0.19440	0.08663		288.8	517.3
8041	2641.4	2998.1	L:	135862 MUMFORD1 115 135866 NLEROYTA 115 1				-86.8	-173.0	-0.03264		-0.02941	-76.0	-153.7
				C:130767 STOLE230 230 130770 SHLDN230 230 1 293										
				Open 130767 STOLE230 230 130770 SHLDN230 230 1						-0.03725	0.08663		288.8	517.6
8106	2642.5	2998.9	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				27.8	-143.0	-0.06464		-0.03893	-6.7	-109.5
				C:130763 HILSD230 230 130768 WATRC230 230 1 286										
				Open 130763 HILSD230 230 130768 WATRC230 230 1						-0.17953	0.14322		-192.1	186.4
9037	2644.4	3000.2	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				571.3	927.0	0.13452		0.12506	536.2	866.9
				C:131122 WTHRS230 230 134750 DAIRY230 230 1 460										
				Open 131122 WTHRS230 230 134750 DAIRY230 230 1						0.10911	0.08663		321.6	550.7
9122	2645.7	3001.2	L:	137200 EDIC 345 137452 N.SCOT77 345 1				1118.2	1724.0	0.22897		0.16566	800.7	1239.0
				C:BUS:N.S._99										
				Open 137453 N.SCOT99 345 147831 GILB 345 345 1						-0.14465	-0.06226		-454.1	-618.8
				Open 137453 N.SCOT99 345 147833 MARCY T1 345 1						-0.35359	-0.17737		-898.1	-1367.3
				Open 137453 N.SCOT99 345 137516 N.SCOT1 115 1						-0.08229	-0.00265		272.2	265.2
				Open 137451 LEEDS 3 345 137453 N.SCOT99 345 2						0.06802	-0.12699		-626.3	-962.2
				Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1						-0.19903	0.00000		3.4	3.4
9220	2648.3	3003.0	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.8	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:130765 OAKDL230 230 130772 SHRED230 230 1 289										
				Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.14020	-0.05691		-86.4	-237.1
9241	2649.1	3003.6	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.8	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:SER:OAKDALE_WATRC230										
				Open 130765 OAKDL230 230 130772 SHRED230 230 1						0.14020	-0.05691		-86.4	-237.1
				Open 130765 OAKDL230 230 130838 OAKDL115 115 1						0.09685	0.00000		0.4	0.4
9258	2649.4	3003.9	L:	130848 S.OWE115 115 131850 CNYOG115 115 1				-18.7	-143.0	-0.04690		-0.03893	-6.7	-109.8
				C:130765 OAKDL230 230 130838 OAKDL115 115 1 290										
				Open 130765 OAKDL230 230 130838 OAKDL115 115 1						-0.14020	0.05691		86.0	236.8
9306	2651.1	3005.1	L:	131018 LOUNSL115 115 131850 CNYOG115 115 1				8.8	112.0	0.03893				
				Base Case										
9330	2653.0	3006.5	L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				570.1	927.0	0.13452		0.12506	536.2	868.0
				C: 95976 STONYCRK 230 131122 WTHRS230 230 1 42										
				Open 95976 STONYCRK 230 131122 WTHRS230 230 1						0.10911	0.08663		311.0	540.8
9362	2655.5	3008.3	L:	135861 MORTIMER 115 135873 SWDN-111 115 1				-72.8	-153.0	-0.03019		-0.02720	-61.3	-133.6
				C:130764 MEYER230 230 134750 DAIRY230 230 1 288										
				Open 130764 MEYER230 230 134750 DAIRY230 230 1						0.03445	-0.08663		-333.4	-563.5
9417	2665.7	3015.6	*L:	95593 CHERYFLT 345 135249 ARMENMTN 345 1				568.4	927.0	0.13452		0.12506	536.2	869.6



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				C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41									
				Open 95976 STONYCRK	230	130770	SHLDN230	230	1										
9423	2669.0	3018.0	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C:131122 WTHRS230	230	134750	DAIRY230	230	1	460									
				Open 131122 WTHRS230	230	134750	DAIRY230	230	1										
9447	2681.2	3026.8	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C: 95976 STONYCRK	230	131122	WTHRS230	230	1	42									
				Open 95976 STONYCRK	230	131122	WTHRS230	230	1										
9452	2683.4	3028.4	L:	137453 N.SCOT99	345	147833	MARCY T1	345	1										
				C:137200 EDIC	345	137452	N.SCOT77	345	1	1026									
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
9453	2683.5	3028.4	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2										
				C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	185									
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1										
9462	2692.6	3035.0	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:SIN:250						1780									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9486	2699.0	3039.7	L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C: 95976 STONYCRK	230	130770	SHLDN230	230	1	41									
				Open 95976 STONYCRK	230	130770	SHLDN230	230	1										
9490	2700.5	3040.7	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:SEABROOK						1675									
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
9491	2700.5	3040.7	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:SEAB&OMS						1677									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch											
9501	2705.6	3044.4	*L:	135861 MORTIMER	115	135873	SWDN-111	115	1										
				C:135856 EBAT-119	115	135859	LAPPINS1	115	1	756									
				Open 135856 EBAT-119	115	135859	LAPPINS1	115	1										
9502	2705.8	3044.6	L:	130848 S.OWE115	115	131850	CNYOG115	115	1										
				Base Case															
9504	2706.2	3044.9	L:	131018 LOUN5115	115	131850	CNYOG115	115	1										
				C: 95646 DEANWIND	230	130768	WATRC230	230	1	36									
				Open 95646 DEANWIND	230	130768	WATRC230	230	1										
9505	2706.4	3045.0	L:	135851 SHEL-113	115	135874	SWDN-113	115	1										
				C:130754 KINTI345	345	147834	NIAG 345	345	1	271									
				Open 130754 KINTI345	345	147834	NIAG 345	345	1										
9548	2721.4	3055.8	L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1										
				C:135850 SOUR-114	115	135861	MORTIMER	115	1	748									
				Open 135850 SOUR-114	115	135861	MORTIMER	115	1										
9570	2728.0	3060.6	*L:	135862 MUMFORD1	115	135866	NLEROYTA	115	1										
				C:135851 SHEL-113	115	135874	SWDN-113	115	1	750									
				Open 135851 SHEL-113	115	135874	SWDN-113	115	1										
9571	2729.8	3061.9	L:	135853 BATAVIA1	115	135871	SENECAP	115	1										
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1										
9577	2733.2	3064.3	*L:	131018 LOUN5115	115	131850	CNYOG115	115	1										
				C:130755 OAKDL345	345	131128	LAPEER	345	1	276									
				Open 130755 OAKDL345	345	131128	LAPEER	345	1										
9584	2737.9	3067.7	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:MILLST 3						1674									
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9585	2737.9	3067.7	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:GEN:MLS3&OMS						1676									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch											
9602	2741.7	3070.4	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:130764 MEYER230	230	134750	DAIRY230	230	1	288									
				Open 130764 MEYER230	230	134750	DAIRY230	230	1										
9629	2751.2	3077.3	L:	95593 CHERYFLT	345	200769	HOMER CY	345	1										
				C:131122 WTHRS230	230	134750	DAIRY230	230	1	460									
				Open 131122 WTHRS230	230	134750	DAIRY230	230	1										

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9632	2751.6	3077.6	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-13.9	-143.0	-0.04690	-0.03893	-6.7	-113.8
			C: 95646 DEANWIND	230	130768 WATRC230	230	1						
			Open 95646 DEANWIND	230	130768 WATRC230	230	1			0.14020	-0.05691	-51.8	-208.4
9637	2756.4	3081.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.7	1724.0	0.22324	0.16566	800.7	1257.3
			C:SIN:170										
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32460	-0.17737	-898.1	-1387.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.18804	0.00000	87.6	87.6
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00028	-0.00015	39.5	39.1
9638	2756.4	3081.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.7	1724.0	0.22324	0.16566	800.7	1257.3
			C:SIN:180										
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32460	-0.17737	-898.1	-1387.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.18806	0.00000	87.6	87.6
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00019	-0.00009	44.6	44.3
9645	2759.9	3083.6	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-555.8	-927.0	-0.13452	-0.12506	-521.8	-867.0
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			-0.10911	0.08663	311.0	550.1
9646	2759.9	3083.6	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	-71.0	-558.0	-0.17645	-0.12447	-26.5	-370.0
			C:147834 NIAG 345	345	157051 BECK B	345	1						
			Open 147834 NIAG 345	345	157051 BECK B	345	1			0.21070	-0.24671	-211.3	-892.2
9647	2760.0	3083.7	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1	-71.0	-558.0	-0.17645	-0.12447	-26.5	-370.0
			C:147834 NIAG 345	345	157050 BECK A	345	1						
			Open 147834 NIAG 345	345	157050 BECK A	345	1			0.21070	-0.24671	-211.2	-892.2
9659	2767.4	3089.0	L: 135861 MORTIMER	115	135874 SWDN-113	115	1	-66.5	-153.0	-0.03126	-0.02571	-54.0	-125.1
			C:135861 MORTIMER	115	135873 SWDN-111	115	1						
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1			0.20400	-0.02720	-61.3	-136.6
9660	2767.4	3089.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1011.4	-1703.0	-0.24991	-0.23402	-945.0	-1592.7
			C:BUS:N.S._77										
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.04140	-0.11529	-450.3	-769.3
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02330	-0.00283	256.8	248.9
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.06690	0.16566	800.7	1259.1
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.00094	-0.02681	26.2	-48.0
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			-0.00000	-0.12700	-627.4	-978.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2			0.00042	0.00000	-250.0	-250.0
9669	2772.4	3092.7	L: 95646 DEANWIND	230	130768 WATRC230	230	1	-133.5	-440.0	-0.11054	-0.05691	-51.8	-209.6
			C:130755 OAKDL345	345	130757 WATRC345	345	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.25372	-0.21137	-322.2	-908.2
9670	2772.6	3092.8	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-554.0	-927.0	-0.13452	-0.12506	-521.8	-868.6
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1			0.10911	-0.08663	-295.3	-535.5
9722	2785.3	3102.0	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-29.2	-143.0	-0.04087	-0.03893	-6.7	-115.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1			0.04124	-0.04712	-545.4	-676.6
9761	2795.7	3109.4	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-503.9	-707.0	-0.07263	-0.03901	-409.8	-518.9
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.23163	-0.14517	-406.3	-812.2
9766	2796.6	3110.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1016.2	-1703.0	-0.24559	-0.23402	-945.0	-1599.5
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1						
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1			0.08849	-0.13083	-804.1	-1169.9
11381	2833.3	3136.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-945.5	-1331.0	-0.13605			
			Base Case										
11552	2856.7	3153.5	L: 130755 OAKDL345	345	130757 WATRC345	345	1	-322.2	-926.0	-0.21137			
			Base Case										
11644	2868.6	3162.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1223.1	-1725.0	-0.17496	-0.13605	-945.5	-1335.8
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.30048	-0.12947	-923.9	-1295.3
11670	2871.9	3164.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1086.2	1724.0	0.22207	0.16566	800.7	1276.4
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.31799	-0.17737	-898.1	-1407.5
11680	2873.2	3165.4	L: 130836 N.WAV115	115	131018 LOUNSI15	115	1	-15.4	173.0	0.06557	0.03893	12.7	124.5
			C:BUS:WATERCURE_230										
			Open 95646 DEANWIND	230	130768 WATRC230	230	1			-0.22227	-0.05691	-51.8	-215.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.16220	-0.08631	244.2	-3.8
			Open 130763 HILSD230	230	130768 WATRC230	230	1			0.11570	0.00000	0.4	0.4

WestCentral

11688	2873.8	3165.8	L: Interface	1	DYSINGER EAS				2327.0	4208.0	0.65454				
			Base Case												
14847	2909.6	3191.6	L: 130750 COOPC345	345	130753 FRASR345	345	1		-999.6	-1703.0	-0.24174		-0.23402	-945.0	-1625.9
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.05575	-0.13861	-979.3	-1382.6
14856	2910.0	3191.9	L: 130836 N.WAV115	115	131018 LOUN515	115	1		14.6	173.0	0.05443		0.03893	12.7	125.9
			C:BUS:WATERCURE_345 1735												
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.04980	-0.12506	-566.4	-930.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.10748	-0.08631	244.2	-6.9
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.04797	0.00000	0.0	0.0
14928	2915.4	3195.8	L: 130750 COOPC345	345	130753 FRASR345	345	1		-999.1	-1703.0	-0.24143		-0.23402	-945.0	-1627.3
			C:137453 N.SCOT99	345	147831 GILB 345	345	1	1093							
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1					0.11914	-0.06226	-454.1	-635.6
14935	2918.2	3197.9	L: 135861 MORTIMER	115	135874 SWDN-113	115	1		-56.3	-153.0	-0.03313		-0.02571	-54.0	-129.0
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271							
			Open 130754 KINTI345	345	147834 NIAG 345	345	1					0.03642	-0.20372	-64.4	-658.9
14942	2920.9	3199.8	L: 130750 COOPC345	345	130753 FRASR345	345	1		-997.4	-1703.0	-0.24156		-0.23402	-945.0	-1628.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	2	186							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	2					0.05543	-0.13605	-945.5	-1342.9
14957	2923.4	3201.6	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-430.7	-1076.0	-0.22075		-0.21137	-322.2	-940.1
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276							
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.19894	-0.04712	-545.4	-683.1
14967	2926.3	3203.7	L: 130753 FRASR345	345	147831 GILB 345	345	1		599.8	1524.0	0.31584		0.21326	185.5	809.6
			C:130750 COOPC345	345	130753 FRASR345	345	1	258							
			Open 130750 COOPC345	345	130753 FRASR345	345	1					-0.43834	-0.23402	-945.0	-1629.8
14995	2934.6	3209.7	*L: 130750 COOPC345	345	130753 FRASR345	345	1		-995.5	-1703.0	-0.24109		-0.23402	-945.0	-1631.8
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	187							
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1					0.05463	-0.12947	-923.9	-1303.8
15029	2940.6	3214.0	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-454.2	-1076.0	-0.21144		-0.21137	-322.2	-943.7
			C:HQ-NY-765-New 1880												
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.03800	0.00089	888.4	891.0
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					-0.03800	0.00078	774.5	776.7
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.00000	-0.00084	-151.0	-153.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1					0.05728	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA							
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA							
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch												
			Set bus 181319 CHAT G3 120 load to 357.0 MW dispatch												
			Decrease bus 180002 BEA-DL 13.8 generation by 100.0 percent dispatch												
			Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch												
16757	2986.4	3247.0	L: 130762 GARDV230	230	135413 GRDNVL2	230	1		-501.3	-773.0	-0.09098		-0.06662	-369.7	-568.6
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	292							
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1					0.43985	-0.05538	-299.2	-464.6
16771	2987.6	3247.9	L: 130755 OAKDL345	345	130757 WATRC345	345	1		-365.6	-1076.0	-0.23779		-0.21137	-322.2	-953.7
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37							
			Open 95646 DEANWIND	230	130772 SHRED230	230	1					-0.46416	0.05691	93.6	263.6

# VolneyEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:47

HORIZON YEAR SU PEAK LOAD 40,816 MW

ICAP TRIAL #10

Case.File ICAP-T10-Rev5.sav

Subsys.File STARS-TTL.SUB

Monit.File STARS-TTL.MON

Contin.File STARS-TTL.CON

Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3929

First violation - 741.5 MW.

Study transfer. From ON\_C\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3929 violations

Interface-1 Interface 3 VOLNEY EAST- Init.Flow= 2744.94 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo
			C: Contingency description	__Ncon	Flow Rating	LODF		Init Fina
1	741.5	3486.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	330.5	383.0	0.07075	0.05790	265.6 308
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11471	-0.11208	-566.4 -649
2	751.0	3496.0	L: 135872 SOUR-111 115 135873 SWDN-111 115 1	136.4	159.0	0.03014	0.02120	101.1 117
			C:147834 NIAG 345 345 149000 ROCH 345 345 1 1320					
			Open 147834 NIAG 345 345 149000 ROCH 345 345 1			0.04431	0.20173	796.4 947
3	751.1	3496.0	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	329.9	383.0	0.07070	0.05790	265.6 309
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00556	-0.02550	56.7 37
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11487	-0.11208	-566.4 -650
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00931	-0.02276	-44.6 -61
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	766.6	3511.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	328.8	383.0	0.07074	0.05790	265.6 310
			C:SER:HC-WC_30&W-F_171 1704					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04708	0.00595	-20.5 -16
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11404	-0.11208	-566.4 -652
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00954	-0.02276	-44.6 -62
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
5	776.4	3521.3	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-328.1	-383.0	-0.07075	-0.05790	-263.1 -308

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			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280										
			Open 130757 WATRC345		345	135249	ARMENMTN	345	1			0.11471	-0.11208	-566.4	-653				
6	786.0	3531.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-327.4	-383.0	-0.07070		-0.05790	-263.1	-308			
			C:SER:HCWC/NWES						1710										
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.00556	-0.02550	56.7	36				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11487	-0.11208	-566.4	-654				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00931	-0.02276	-44.6	-62				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA							
7	801.6	3546.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-326.3	-383.0	-0.07074		-0.05790	-263.1	-309			
			C:SER:HC-WC_30&W-F_171						1704										
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.04708	0.00595	-20.5	-15				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11404	-0.11208	-566.4	-656				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00954	-0.02276	-44.6	-62				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA							
8	812.6	3557.6	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		327.1	383.0	0.06882		0.05790	265.6	312			
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35										
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.11471	0.09523	536.2	613				
9	844.9	3589.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		325.4	383.0	0.06814		0.05790	265.6	314			
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451										
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.11471	-0.08932	-521.8	-597				
10	848.5	3593.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-324.6	-383.0	-0.06882		-0.05790	-263.1	-312			
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35										
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				-0.11471	0.09523	536.2	617				
11	881.2	3626.1	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-323.0	-383.0	-0.06814		-0.05790	-263.1	-314			
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451										
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.11471	-0.08932	-521.8	-600				
12	970.9	3715.8	L: 135850 SOUR-114	115	135861	MORTIMER	115	1		122.3	153.0	0.03164		0.02231	85.5	107			
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1320										
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04623	0.20173	796.4	992				
13	1033.4	3778.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		330.0	383.0	0.05127		0.05790	265.6	325			
			C:BUS:WATERCURE_345						1735										
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.04490	-0.11208	-566.4	-682				
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.15973	-0.07296	244.2	168				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.03651	0.00000	0.0	0				
14	1081.6	3826.6	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-327.5	-383.0	-0.05127		-0.05790	-263.1	-325			
			C:BUS:WATERCURE_345						1735										
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.04490	-0.11208	-566.4	-687				
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.15973	-0.07296	244.2	165				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.03651	0.00000	0.0	0				
15	1146.9	3891.8	L: 130750 COOPC345	345	130753	FRASR345	345	1		-945.0	-1207.0	-0.22842							
			Base Case																
16	1152.5	3897.5	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1		132.7	173.0	0.03498		0.02502	93.4	122			

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.04936	0.20173	796.4	1028					
17	1345.4	4090.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		299.4	383.0	0.06214		0.05790	265.6	343				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					-0.06204	-0.06837	-545.4	-637				
18	1375.7	4120.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		300.0	383.0	0.06036		0.05790	265.6	345				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					-0.05472	-0.04511	-628.6	-690				
19	1376.8	4121.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		294.6	383.0	0.06418		0.05790	265.6	345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					-0.28685	-0.02191	-101.3	-131				
20	1385.2	4130.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-296.9	-383.0	-0.06214		-0.05790	-263.1	-343				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.06204	-0.06837	-545.4	-640				
21	1400.8	4145.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1		129.8	173.0	0.03087		0.02502	93.4	128				
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.04097	0.14281	887.9	1087				
22	1415.3	4160.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-292.2	-383.0	-0.06418		-0.05790	-263.1	-345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					0.28685	-0.02191	-101.3	-132				
23	1416.6	4161.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-297.5	-383.0	-0.06036		-0.05790	-263.1	-345				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					0.05472	-0.04511	-628.6	-692				
24	1426.3	4171.2	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		291.9	383.0	0.06386		0.05790	265.6	348				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					0.28685	0.02081	91.8	121				
25	1446.5	4191.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-333.4	-430.0	-0.06676								
			Base Case																
27	1465.0	4209.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-289.4	-383.0	-0.06386		-0.05790	-263.1	-347				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					-0.28685	0.02081	91.8	122				
29	1489.7	4234.6	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		1270.8	1685.0	0.27803		0.20173	796.4	1097				
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.53428	0.14281	887.9	1100				
37	1602.3	4347.2	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-116.0	-173.0	-0.03557		-0.02545	-76.0	-116				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.05019	0.20173	796.4	1119				
42	1658.1	4403.1	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1236.9	-1703.0	-0.28113		-0.22842	-945.0	-1323				
			C:130750 COOPC345	345	147833 MARCY T1	345	1	262											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.42268	-0.12469	-690.4	-897				
46	1682.7	4427.6	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-566.4	-755.0	-0.11208								
			Base Case																
65	1738.2	4483.2	L: 135861 MORTIMER	115	135873 SWDN-111	115	1		-98.3	-153.0	-0.03146		-0.02209	-61.3	-99				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.04642	0.20173	796.4	1147				
85	1789.3	4534.3	L: 130757 WATRC345	345	130768 WATRC230	230	1		484.1	600.0	0.06479		-0.07296	244.2	113				

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			C:130755 OAKDL345	345	130757 WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.74443	-0.18504	-322.2	-653
103	1852.3	4597.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		321.6	430.0	0.05850			
			Base Case											
109	1859.2	4604.1	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		1254.3	1793.0	0.28974	0.18312	816.7	1157
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2					-0.62722	-0.16999	-697.6 -1013
139	1902.8	4647.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-391.2	-540.0	-0.07820	-0.06676	-333.4	-460
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10201	-0.11208	-566.4 -779
146	1906.4	4651.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-389.8	-540.0	-0.07878	-0.06676	-333.4	-460
			C:SER:HCWC/NWES					1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.02617	-0.02550	56.7 8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10276	-0.11208	-566.4 -780
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					-0.00752	-0.02276	-44.6 -88
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA					
151	1910.3	4655.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-113.0	-173.0	-0.03140	-0.02545	-76.0	-124
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					-0.04166	0.14281	887.9 1160
157	1919.3	4664.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-386.2	-540.0	-0.08013	-0.06676	-333.4	-461
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.06626	0.20173	796.4 1183
158	1919.7	4664.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-390.0	-540.0	-0.07816	-0.06676	-333.4	-461
			C:SER:HC-WC_30&W-F_171					1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1					-0.03207	0.00595	-20.5 -9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10156	-0.11208	-566.4 -781
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					-0.00768	-0.02276	-44.6 -88
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA					
169	1934.3	4679.2	L: 130754 KINTI345	345	149000 ROCH 345	345	1		1237.5	1685.0	0.23136	0.14281	887.9	1164
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.43897	0.20173	796.4 1186
241	1985.8	4730.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-388.1	-540.0	-0.07648	-0.06676	-333.4	-466
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					-0.10201	0.09523	536.2 725
403	2020.9	4765.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-386.7	-540.0	-0.07588	-0.06676	-333.4	-468
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					0.10201	-0.08932	-521.8 -702
989	2028.4	4773.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		265.6	383.0	0.05790			
			Base Case											
1861	2038.5	4783.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		311.0	430.0	0.05839			
			Base Case											
2658	2071.1	4816.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-263.1	-383.0	-0.05790			

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Base Case															
3445	2076.8	4821.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	331.1	478.0	0.07075	0.05790	266.1	386	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1						280	
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11471	-0.11208	-566.4	-799
3530	2087.4	4832.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	330.4	478.0	0.07070	0.05790	266.1	386	
			C:SER:HCWC/NWES											1710	
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.00556	-0.02550	56.7	3
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11487	-0.11208	-566.4	-800
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00931	-0.02276	-44.6	-92
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA			
3549	2093.7	4838.6	L: 125001 ROCK TAV	345	130750	COOPC345	345	2	-1200.9	-1793.0	-0.28282	-0.16999	-697.6	-1053	
			C:130750 COOPC345	345	146754	MDTN TAP	345	1						261	
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.61614	0.18312	816.7	1200
3556	2095.2	4840.1	L: 131018 LOUNSI15	115	131850	CNYOG115	115	1	38.7	143.0	0.04979	0.03263	8.8	77	
			C:130755 OAKDL345	345	130757	WATRC345	345	1						273	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09274	-0.18504	-322.2	-709
3573	2102.2	4847.2	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	329.3	478.0	0.07074	0.05790	266.1	387	
			C:SER:HC-WC_30&W-F_171											1704	
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.04708	0.00595	-20.5	-8
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11404	-0.11208	-566.4	-802
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00954	-0.02276	-44.6	-92
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA			
3586	2113.9	4858.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.07462	-0.06676	-333.4	-474	
			C:130754 KINTI345	345	149000	ROCH	345	1						272	
			Open 130754 KINTI345	345	149000	ROCH	345	1				-0.05500	0.14281	887.9	1189
3618	2138.0	4882.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-36.6	-143.0	-0.04979	-0.03263	-6.7	-76	
			C:130755 OAKDL345	345	130757	WATRC345	345	1						273	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.09274	-0.18504	-322.2	-717
3641	2169.5	4914.4	L: 125001 ROCK TAV	345	130750	COOPC345	345	2	-1182.4	-1793.0	-0.28146	-0.16999	-697.6	-1066	
			C:SER:CMT34&MTR34											1695	
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1				-0.56740	0.18312	816.7	1214
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.05247	-0.14422	-406.3	-719
3646	2185.5	4930.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	327.6	478.0	0.06882	0.05790	266.1	392	
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1						35	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.11471	0.09523	536.2	744
3655	2231.4	4976.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	325.9	478.0	0.06814	0.05790	266.1	395	
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						1451	
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.11471	-0.08932	-521.8	-721
3659	2246.3	4991.2	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1	-93.1	-173.0	-0.03557	-0.02545	-53.1	-110	
			C:147834 NIAG	345	149000	ROCH	345	1						1320	
			Open 147834 NIAG	345	149000	ROCH	345	1				-0.05019	0.20173	796.4	1249
3661	2248.5	4993.4	L: 130750 COOPC345	345	147833	MARCY T1	345	1	-932.9	-1345.0	-0.18329	-0.12469	-690.4	-970	



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			C:130750 COOPC345	345	130753 FRASR345	345	1	258								
			Open 130750 COOPC345	345	130753 FRASR345	345	1		0.25656	-0.22842	-945.0	-1458				
3664	2254.4	4999.3	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1014.5	-1703.0	-0.30541		-0.22842	-945.0	-1460	
			C:130753 FRASR345	345	147831 GILB 345	345	1	270								
			Open 130753 FRASR345	345	147831 GILB 345	345	1						-0.37434	0.20566	185.5	649
3681	2286.0	5030.9	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-670.7	-927.0	-0.11212		-0.11208	-566.4	-822	
			C:HQ-NY-765-New					1880								
			Open 147827 MARCY765	765	147828 MASS 765	765	1									
			Open 147828 MASS 765	765	180819 CHA-NY	765	1									
			Open 147827 MARCY765	765	147833 MARCY T1	345	1						-0.02391	0.00092	888.4	890
			Open 147827 MARCY765	765	147833 MARCY T1	345	2						-0.02391	0.00080	774.5	776
			Open 156 MCY765SW	765	147827 MARCY765	765	1									
			Open 147838 MASS230B	230	147839 MOSES E	230	1						0.00000	-0.00086	-151.0	-153
			Open 147828 MASS 765	765	147838 MASS230B	230	1									
			Open 147837 MASS230A	230	147839 MOSES E	230	1						0.05349	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837 MASS230A	230	1									
			Open 158 MS765SW2	765	147828 MASS 765	765	1									
			Open 157 MS765SW1	765	147828 MASS 765	765	1									
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0										
			Set bus 181319 CHAT G3	120	load to	357.0										
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0										
			Set bus 181419 CHAT G4	120	load to	357.0										
3685	2296.1	5041.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		379.4	540.0	0.06994		0.05850	321.6	456	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280								
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						-0.10201	-0.11208	-566.4	-823
3686	2297.0	5041.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.0	540.0	0.07052		0.05850	321.6	456	
			C:SER:HCWC/NWES					1710								
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						-0.02617	-0.02550	56.7	-1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1									
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						-0.10276	-0.11208	-566.4	-823
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1									
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						0.00752	-0.02276	-44.6	-96
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1									
3687	2297.5	5042.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		536.2	755.0	0.09523					
			Base Case													
3690	2304.0	5048.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		374.4	540.0	0.07187		0.05850	321.6	456	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1						0.06626	0.20173	796.4	1261
3696	2315.3	5060.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.2	540.0	0.06990		0.05850	321.6	457	
			C:SER:HC-WC_30&W-F_171					1704								
			Open 135277 FALCONER	115	200579 WARREN	115	1						0.03207	0.00595	-20.5	-6
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1									
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						-0.10156	-0.11208	-566.4	-825
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1									
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						0.00768	-0.02276	-44.6	-97
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1									

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3702	2328.8	5073.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.8	-540.0	-0.06406	-0.06676	-333.4	-488
			C:BUS:WATERCURE_345				1735						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.05133	-0.11208	-566.4	-827
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11598	-0.07296	244.2	74
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04447	0.00000	0.0	0
3720	2399.1	5144.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	376.3	540.0	0.06822	0.05850	321.6	462
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10201	0.09523	536.2	764
3729	2442.2	5187.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	374.9	540.0	0.06762	0.05850	321.6	464
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10201	-0.08932	-521.8	-740
3731	2452.1	5197.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.3	540.0	0.07041	0.05839	311.0	454
			C:SER:HCWC/NWES				1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02617	-0.02550	56.7	-5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10276	-0.11208	-566.4	-841
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00752	-0.02276	-44.6	-100
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
3732	2452.6	5197.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	368.7	540.0	0.06983	0.05839	311.0	454
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10201	-0.11208	-566.4	-841
3733	2456.3	5201.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	363.7	540.0	0.07176	0.05839	311.0	454
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.06626	0.20173	796.4	1292
3735	2465.7	5210.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-375.3	-540.0	-0.06681	-0.06676	-333.4	-498
			C:SPS:MARCY_AT1_AT2				1699						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02517	0.00092	888.4	890
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02517	0.00080	774.5	776
3737	2471.9	5216.8	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.5	540.0	0.06979	0.05839	311.0	455
			C:SER:HC-WC_30&W-F_171				1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03207	0.00595	-20.5	-5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10156	-0.11208	-566.4	-843
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00768	-0.02276	-44.6	-100
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
3740	2491.1	5236.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1109.6	-1724.0	-0.24662	-0.12847	-626.3	-946
			C:BUS:N.S._77				1717						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60280	-0.11410	-450.3	-734
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.39243	-0.00302	256.8	249
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.32357	0.16964	800.7	1223
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.25034	-0.02677	26.2	-40
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			-0.00000	-0.12849	-627.4	-947
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2			0.18840	0.00000	-250.0	-250

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3741	2492.1	5237.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1078.4	-1703.0	-0.25063	-0.22842	-945.0	-1514
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1089					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.15021	-0.14781	-888.0	-1256
3742	2501.1	5246.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	796.4	1301.0	0.20173			
			Base Case										
3745	2510.7	5255.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1189.5	-1792.0	-0.23996	-0.18186	-898.1	-1354
			C:SIN:160					1773					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34253	0.16964	800.7	1226
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19630	0.00000	87.6	87
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00028	-0.00015	39.5	39
3746	2510.7	5255.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1189.5	-1792.0	-0.23996	-0.18186	-898.1	-1354
			C:SIN:150					1772					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34253	0.16964	800.7	1226
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19632	0.00000	87.6	87
			Open 137235 PORTER 1	115	147905 ILLION	115	1			-0.00018	-0.00009	44.6	44
3747	2515.7	5260.6	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1352.8	-1912.0	-0.22229	-0.14781	-888.0	-1259
			C:BUS:N.S._99					1718					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.64505	-0.05786	-454.1	-599
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.17557	-0.18186	-898.1	-1355
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.03798	-0.00286	272.2	265
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.03989	-0.12847	-626.3	-949
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.12345	0.00000	3.4	3
3749	2532.5	5277.4	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-370.8	-540.0	-0.06681	-0.06676	-333.4	-502
			C:HQ-NY-765-New					1880					
			Open 147827 MARCY765	765	147828 MASS 765	765	1			NA			
			Open 147828 MASS 765	765	180819 CHA-NY	765	1			NA			
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02517	0.00092	888.4	890
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02517	0.00080	774.5	776
			Open 156 MCY765SW	765	147827 MARCY765	765	1			NA			
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00086	-151.0	-153
			Open 147828 MASS 765	765	147838 MASS230B	230	1			NA			
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.00239	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837 MASS230A	230	1			NA			
			Open 158 MS765SW2	765	147828 MASS 765	765	1			NA			
			Open 157 MS765SW1	765	147828 MASS 765	765	1			NA			
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0				percent dispatch			
			Set bus 181319 CHAT G3	120	load to	357.0				MW dispatch			
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0				percent dispatch			
			Set bus 181419 CHAT G4	120	load to	357.0				MW dispatch			
3750	2536.4	5281.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	96.0	173.0	0.03035	0.02502	93.4	156
			C:130754 KINTI345	345	147834 NIAG 345	345	1	271					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04097	-0.13014	-64.4	-394
3751	2554.7	5299.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	370.5	540.0	0.06636	0.05850	321.6	471
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.05500	0.14281	887.9	1252
3752	2559.7	5304.6	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	365.7	540.0	0.06811	0.05839	311.0	460

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			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.10201	0.09523	536.2	780			
3753	2590.9	5335.9	L: 137200 EDIC	345	137452	N.SCOT77	345	1		1118.2	1724.0	0.23381		0.16964	800.7	1240		
			C:BUS:N.S._99						1718									
			Open 137453 N.SCOT99	345	147831	GILB	345	1					-0.14465	-0.05786	-454.1	-604		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1					-0.35359	-0.18186	-898.1	-1369		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1					-0.08229	-0.00286	272.2	264		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2					0.06802	-0.12847	-626.3	-959		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1					-0.19903	0.00000	3.4	3		
3756	2595.7	5340.6	L: Interface	73	MarcySouthS					1635.4	2552.0	0.35311						
			Base Case															
3757	2604.3	5349.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		364.2	540.0	0.06751		0.05839	311.0	463		
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1451									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					-0.10201	-0.08932	-521.8	-754		
3758	2606.7	5351.7	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-634.8	-927.0	-0.11208		-0.11208	-566.4	-858		
			C:SIN:250						1780									
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.0	-0		
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch								
3759	2610.5	5355.5	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1		-521.8	-755.0	-0.08932						
			Base Case															
3761	2615.5	5360.5	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-633.8	-927.0	-0.11208		-0.11208	-566.4	-859		
			C:GEN:SEABROOK						1675									
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch								
3762	2615.5	5360.5	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-633.8	-927.0	-0.11208		-0.11208	-566.4	-859		
			C:GEN:SEAB&OMS						1677									
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.0	-0		
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch								
3763	2616.8	5361.7	L: 146758 CHESTER	138	146771	SHOEM138	138	1		-194.4	-317.0	-0.04684		-0.02102	-121.7	-176		
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	72									
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1					0.17898	-0.14422	-406.3	-783		
3764	2618.0	5363.0	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1166.8	-1792.0	-0.23880		-0.18186	-898.1	-1374		
			C:137200 EDIC	345	137452	N.SCOT77	345	1	1026									
			Open 137200 EDIC	345	137452	N.SCOT77	345	1					-0.33566	0.16964	800.7	1244		
3765	2620.5	5365.5	L: 130836 N.WAV115	115	131018	LOUNSI15	115	1		42.5	173.0	0.04979		0.03263	12.7	98		
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273									
			Open 130755 OAKDL345	345	130757	WATRC345	345	1					-0.09274	-0.18504	-322.2	-807		
3766	2635.6	5380.5	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1053.8	-1703.0	-0.24633		-0.22842	-945.0	-1547		
			C:BUS:N.S._99						1718									
			Open 137453 N.SCOT99	345	147831	GILB	345	1					0.12288	-0.05786	-454.1	-606		
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1					0.05425	-0.18186	-898.1	-1377		
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1					0.00125	-0.00286	272.2	264		
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2					0.00725	-0.12847	-626.3	-964		
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1					-0.00473	0.00000	3.4	3		
3767	2640.0	5384.9	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1		-90.1	-173.0	-0.03140		-0.02545	-53.1	-120		
			C:130754 KINTI345	345	149000	ROCH	345	1	272									
			Open 130754 KINTI345	345	149000	ROCH	345	1					-0.04166	0.14281	887.9	1264		

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3772	2657.2	5402.2	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-629.2	-927.0	-0.11208	-0.11208	-566.4	-864
			C:GEN:MILLST 3					1674						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
3773	2657.2	5402.2	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-629.2	-927.0	-0.11208	-0.11208	-566.4	-864
			C:GEN:MLS3&OMS					1676						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2	-0.00000	0.00000	-0.0	-0.0	-0.0	-0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
3775	2677.3	5422.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1245.8	-1725.0	-0.17897	-0.13637	-945.5	-1310
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	185					
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1	0.30666	-0.13893	-979.3	-1351		
3776	2690.9	5435.8	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1108.7	1724.0	0.22867	0.16964	800.7	1257
			C:SIN:170					1774						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1	-0.32460	-0.18186	-898.1	-1387		
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1	0.18804	0.00000	87.6	87		
			Open 137235 PORTER 1	115	137246	VALLEY	115	1	0.00028	-0.00015	39.5	39		
3777	2690.9	5435.8	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1108.7	1724.0	0.22867	0.16964	800.7	1257
			C:SIN:180					1775						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1	-0.32460	-0.18186	-898.1	-1387		
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1	0.18806	0.00000	87.6	87		
			Open 137235 PORTER 1	115	147905	ILION	115	1	0.00019	-0.00009	44.6	44		
3778	2691.9	5436.8	L: 95646 DEANWIND	230	130772	SHRED230	230	1	175.3	440.0	0.09833	0.05139	93.6	231
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1	-0.25372	-0.18504	-322.2	-820		
3783	2704.7	5449.6	L: 130787 CODNT115	115	130830	MONTR115	115	1	-17.9	-144.0	-0.04663	-0.03152	8.4	-76
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273					
			Open 130755 OAKDL345	345	130757	WATRC345	345	1	0.08167	-0.18504	-322.2	-822		
3784	2705.0	5449.9	L: 149000 ROCH 345	345	149001	PANNELL3	345	2	793.7	1685.0	0.32950	0.18365	442.3	939
			C:149000 ROCH 345	345	149001	PANNELL3	345	1	1386					
			Open 149000 ROCH 345	345	149001	PANNELL3	345	1	0.79682	0.18304	441.0	936		
3785	2708.3	5453.2	L: 149000 ROCH 345	345	149001	PANNELL3	345	1	793.2	1685.0	0.32928	0.18304	441.0	936
			C:149000 ROCH 345	345	149001	PANNELL3	345	2	1387					
			Open 149000 ROCH 345	345	149001	PANNELL3	345	2	0.79629	0.18365	442.3	939		
3792	2716.2	5461.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-602.8	-927.0	-0.11937	-0.11208	-566.4	-870
			C:130764 MEYER230	230	134750	DAIRY230	230	1	288					
			Open 130764 MEYER230	230	134750	DAIRY230	230	1	0.10911	-0.06676	-333.4	-514		
3793	2720.0	5465.0	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	359.8	540.0	0.06625	0.05839	311.0	469
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000	ROCH 345	345	1	0.05500	0.14281	887.9	1276		
3799	2747.7	5492.6	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-601.5	-927.0	-0.11847	-0.11208	-566.4	-874
			C:131122 WTHRS230	230	134750	DAIRY230	230	1	460					
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1	-0.10911	0.05850	321.6	482		
3800	2749.7	5494.6	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-605.4	-927.0	-0.11697	-0.11208	-566.4	-874
			C:130755 OAKDL345	345	131128	LAPEER	345	1	276					
			Open 130755 OAKDL345	345	131128	LAPEER	345	1	0.07146	-0.06837	-545.4	-733		
3801	2752.7	5497.7	*L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-599.0	-927.0	-0.11917	-0.11208	-566.4	-874
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1	263					

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			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1				-0.12238	0.05790	266.1	425
3806	2764.7	5509.7	L: 130765 OAKDL230	230	130772	SHRED230	230	1	-168.1	-440.0	-0.09833		-0.05139	-86.4	-228
			C:130755 OAKDL345	345	130757	WATRC345	345	1			273				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.25372	-0.18504	-322.2	-833
3808	2768.6	5513.6	L: 130765 OAKDL230	230	130838	OAKDL115	115	1	167.7	440.0	0.09833		0.05139	86.0	228
			C:130755 OAKDL345	345	130757	WATRC345	345	1			273				
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.25372	-0.18504	-322.2	-834
3812	2778.7	5523.6	L: 95976 STONYCRK	230	130770	SHLDN230	230	1	-295.3	-430.0	-0.04848				
			Base Case												
3817	2801.9	5546.8	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	237.9	336.0	0.03502		0.00887	117.7	142
			C:130751 CNDGUA_T	230	130761	AVOCA230	230	1			263				
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1				0.45175	0.05790	266.1	428
3818	2802.5	5547.4	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	237.9	336.0	0.03502		0.00887	117.7	142
			C:SER:MEYER_HILLSD_68								1707				
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.45175	0.05790	265.6	427
			Open 130751 CNDGUA_T	230	130761	AVOCA230	230	1				0.41292	0.00000	0.5	0
3819	2803.7	5548.6	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1086.2	1724.0	0.22747		0.16964	800.7	1276
			C:137453 N.SCOT99	345	147833	MARCY T1	345	1			1094				
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.31799	-0.18186	-898.1	-1407
3823	2808.6	5553.5	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	237.6	336.0	0.03502		0.00887	117.7	142
			C:130761 AVOCA230	230	131154	STONY RIDGE	230	1			283				
			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.45175	0.05790	265.6	428
3824	2808.6	5553.6	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-503.9	-707.0	-0.07230		-0.03889	-409.8	-519
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1			72				
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.23163	-0.14422	-406.3	-811
3827	2826.8	5571.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-945.5	-1331.0	-0.13637				
			Base Case												
3828	2828.2	5573.2	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1011.4	-1703.0	-0.24454		-0.22842	-945.0	-1591
			C:BUS:N.S._77								1717				
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.04140	-0.11410	-450.3	-773
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.02330	-0.00302	256.8	248
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01			NA				
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.06690	0.16964	800.7	1280
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1				-0.00094	-0.02677	26.2	-49
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				-0.00000	-0.12849	-627.4	-990
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2				0.00042	0.00000	-250.0	-250
3831	2840.5	5585.4	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	236.5	336.0	0.03502		0.00887	117.7	142
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1			287				
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1				-0.45175	-0.05790	-263.1	-427
3832	2848.9	5593.9	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	295.2	478.0	0.06418		0.05790	266.1	431
			C:130774 BATH 115	115	131347	HOWARD	115	1			298				
			Open 130774 BATH 115	115	131347	HOWARD	115	1				-0.28685	-0.02191	-101.3	-163
3835	2858.3	5603.2	L: 130751 CNDGUA_T	230	130764	MEYER230	230	1	-275.8	-478.0	-0.07075		-0.05790	-210.8	-376
			C:130757 WATRC345	345	135249	ARMENMTN	345	1			280				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11471	-0.11208	-566.4	-886
3836	2861.3	5606.3	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1016.2	-1703.0	-0.24003		-0.22842	-945.0	-1598

## VolneyEast

			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	65											
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.08849	-0.13120	-804.1	-1179					
3838	2862.0	5606.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1223.1	-1725.0	-0.17536		-0.13637	-945.5	-1335				
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	187											
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1				0.30048	-0.12977	-923.9	-1295					
3839	2865.9	5610.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1		299.9	478.0	0.06214		0.05790	266.1	432				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.06204	-0.06837	-545.4	-741					
3841	2869.4	5614.4	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-275.1	-478.0	-0.07070		-0.05790	-210.8	-376				
			C:SER:HCWC/NWES					1710											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.00556	-0.02550	56.7	-16					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11487	-0.11208	-566.4	-888					
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA										
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00931	-0.02276	-44.6	-109					
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA										
3843	2871.6	5616.5	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		10.8	143.0	0.04605		0.03263	8.8	102				
			C:BUS:WATERCURE_345					1735											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04980	-0.11208	-566.4	-888					
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.10748	-0.07296	244.2	34					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04797	0.00000	0.0	0					
3845	2876.1	5621.0	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1		330.5	478.0	0.05127		0.05790	266.1	432				
			C:BUS:WATERCURE_345					1735											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04490	-0.11208	-566.4	-888					
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15973	-0.07296	244.2	34					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.03651	0.00000	0.0	0					
3847	2883.8	5628.8	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-274.0	-478.0	-0.07074		-0.05790	-210.8	-377				
			C:SER:HC-WC_30&W-F_171					1704											
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04708	0.00595	-20.5	-3					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11404	-0.11208	-566.4	-889					
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA										
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00954	-0.02276	-44.6	-110					
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA										
3849	2884.9	5629.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		379.0	540.0	0.05580		0.05850	321.6	490				
			C:BUS:WATERCURE_345					1735											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.05133	-0.11208	-566.4	-889					
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.11598	-0.07296	244.2	33					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04447	0.00000	0.0	0					
3852	2892.9	5637.9	L: 130754 KINTI345	345	149000 ROCH 345	345	1		887.9	1301.0	0.14281								
			Base Case																
3857	2905.7	5650.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1		292.4	478.0	0.06386		0.05790	266.1	434				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28685	0.02081	91.8	152					
3861	2917.8	5662.8	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		-8.6	-143.0	-0.04605		-0.03263	-6.7	-101				
			C:BUS:WATERCURE_345					1735											

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 31 2012 10:42  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 22439  
 First violation - 166.5 MW.

Study transfer. From D\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 22439 violations

Interface-1 Interface 4 MOSES SOUTH- Init.Flow= 2086.07 TDF= 0.9941

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment
			C: Contingency description	___Ncon	Flow Rating		LODF	Init Final	
1	166.5	2251.6	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	230 5	216.4 258.0	0.25000	0.25000	216.1 257.7	
2	166.5	2251.6	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	230 5	216.4 258.0	0.25000	0.25000	216.1 257.7	
3	166.5	2251.6	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	230 6	216.4 258.0	0.25000	0.25000	216.1 257.7	
4	166.5	2251.6	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	230 6	216.4 258.0	0.25000	0.25000	216.1 257.7	
5	166.5	2251.6	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	230 5	216.4 258.0	0.25000	0.25000	216.1 257.7	
6	166.5	2251.6	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:MLS3&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	230 5	216.4 258.0	0.25000	0.25000	216.1 257.7	
7	166.5	2251.6	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:MLS3&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	230 6	216.4 258.0	0.25000	0.25000	216.1 257.7	
8	166.5	2251.6	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	230 6	216.4 258.0	0.25000	0.25000	216.1 257.7	
9	166.7	2251.8	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:SEAB&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	115 7	216.3 258.0	0.25000	0.25000	216.0 257.7	
10	166.7	2251.8	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	115 7	216.3 258.0	0.25000	0.25000	216.0 257.7	
11	166.7	2251.8	L: 147764 MOS17-20 13.8 147839 MOSES E C:GEN:SALEM Remove unit 1 from bus 36 SALEM-G1 22.0 1107.4 MW dispatch	230 5	216.3 258.0	0.25000	0.25000	216.1 257.7	
12	166.7	2251.8	L: 147767 MOS21-24 13.8 147840 MOSES W C:GEN:SALEM Remove unit 1 from bus 36 SALEM-G1 22.0 1107.4 MW dispatch	230 6	216.3 258.0	0.25000	0.25000	216.1 257.7	
13	166.7	2251.8	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:MLS3&OMS Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	115 7	216.3 258.0	0.25000	0.25000	216.0 257.7	
14	166.7	2251.8	L: 147769 MOS25-28 13.8 147849 MOS 115 C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	115 7	216.3 258.0	0.25000	0.25000	216.0 257.7	
15	166.7	2251.8	L: 147773 MOS29-32 13.8 147849 MOS 115 C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	115 8	216.3 258.0	0.25000	0.25000	216.0 257.7	



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16	166.7	2251.8	L: 147773 MOS29-32	13.8	147849	MOS	115	115	8	216.3	258.0	0.25000	0.25000	216.0	257.7		
			C:GEN:SEAB&OMS														
			Open 100508 SANDB115			115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus			102869	SBRK	G1		25.0	1318.0	MW		dispatch			
17	166.7	2251.8	L: 147764 MOS17-20	13.8	147839	MOSES	E			230	5	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:PEACHBTM														
			Remove unit 1 from bus			34	PCHBTM	2		22.0	1051.0	MW		dispatch			
18	166.7	2251.8	L: 147767 MOS21-24	13.8	147840	MOSES	W			230	6	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:PEACHBTM														
			Remove unit 1 from bus			34	PCHBTM	2		22.0	1051.0	MW		dispatch			
19	166.7	2251.8	L: 147764 MOS17-20	13.8	147839	MOSES	E			230	5	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:IND PT 3														
			Remove unit 1 from bus			147798	IP#3	GEN		22.0	1040.4	MW		dispatch			
20	166.8	2251.8	L: 147767 MOS21-24	13.8	147840	MOSES	W			230	6	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:IND PT 3														
			Remove unit 1 from bus			147798	IP#3	GEN		22.0	1040.4	MW		dispatch			
21	166.8	2251.8	L: 147764 MOS17-20	13.8	147839	MOSES	E			230	5	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:IND PT 2														
			Remove unit 2 from bus			126651	IND	PT 2		22.0	1021.8	MW		dispatch			
22	166.8	2251.9	L: 147767 MOS21-24	13.8	147840	MOSES	W			230	6	216.3	258.0	0.25000	0.25000	216.1	257.8
			C:GEN:IND PT 2														
			Remove unit 2 from bus			126651	IND	PT 2		22.0	1021.8	MW		dispatch			
23	166.8	2251.9	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.3	258.0	0.25000	0.25000	216.0	257.7
			C:GEN:MLS3&OMS														
			Open 100508 SANDB115			115	100509	SB	RCTOR	115	2		0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus			103563	MILL#3			24.0	1276.0	MW		dispatch			
24	166.8	2251.9	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.3	258.0	0.25000	0.25000	216.0	257.7
			C:GEN:MILLST 3														
			Remove unit 3 from bus			103563	MILL#3			24.0	1276.0	MW		dispatch			
25	166.8	2251.9	L: 147764 MOS17-20	13.8	147839	MOSES	E			230	5	216.3	258.0	0.24995	0.25000	216.1	257.8
			C:GEN:IND PT 3-New														
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	1		0.00000	-0.10564	506.2	488.5	
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	2		-0.00024	0.21016	-1009.3	-974.3	
26	166.8	2251.9	L: 147767 MOS21-24	13.8	147840	MOSES	W			230	6	216.3	258.0	0.24995	0.25000	216.1	257.8
			C:GEN:IND PT 3-New														
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	1		0.00000	-0.10564	506.2	488.5	
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	2		-0.00024	0.21016	-1009.3	-974.3	
27	166.8	2251.9	*L: 147764 MOS17-20	13.8	147839	MOSES	E			230	5	216.3	258.0	0.24995	0.25000	216.1	257.8
			C:GEN:IND PT 2-New														
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	1		0.00000	0.10239	-493.4	-476.3	
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	2		-0.00024	0.20478	-986.8	-952.7	
28	166.8	2251.9	*L: 147767 MOS21-24	13.8	147840	MOSES	W			230	6	216.3	258.0	0.24995	0.25000	216.1	257.8
			C:GEN:IND PT 2-New														
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	1		0.00000	0.10239	-493.4	-476.3	
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	2		-0.00024	0.20478	-986.8	-952.6	
29	166.9	2252.0	L: 147769 MOS25-28	13.8	147849	MOS	115			115	7	216.3	258.0	0.25000	0.25000	216.0	257.7
			C:GEN:SALEM														
			Remove unit 1 from bus			36	SALEM-G1			22.0	1107.4	MW		dispatch			
31	166.9	2252.0	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.3	258.0	0.25000	0.25000	216.0	257.7
			C:GEN:SALEM														
			Remove unit 1 from bus			36	SALEM-G1			22.0	1107.4	MW		dispatch			
33	166.9	2252.0	L: 147769 MOS25-28	13.8	147849	MOS	115			115	7	216.3	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:PEACHBTM														
			Remove unit 1 from bus			34	PCHBTM	2		22.0	1051.0	MW		dispatch			
35	166.9	2252.0	L: 147769 MOS25-28	13.8	147849	MOS	115			115	7	216.3	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:IND PT 3														
			Remove unit 1 from bus			147798	IP#3	GEN		22.0	1040.4	MW		dispatch			
37	167.0	2252.0	L: 147769 MOS25-28	13.8	147849	MOS	115			115	7	216.3	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:IND PT 2														
			Remove unit 2 from bus			126651	IND	PT 2		22.0	1021.8	MW		dispatch			
38	167.0	2252.1	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.3	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:PEACHBTM														
			Remove unit 1 from bus			34	PCHBTM	2		22.0	1051.0	MW		dispatch			
39	167.0	2252.1	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.3	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:IND PT 3														
			Remove unit 1 from bus			147798	IP#3	GEN		22.0	1040.4	MW		dispatch			
40	167.0	2252.1	L: 147769 MOS25-28	13.8	147849	MOS	115			115	7	216.3	258.0	0.24995	0.25000	216.0	257.8
			C:GEN:IND PT 3-New														
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	1		0.00000	-0.10564	506.2	488.5	
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	2		-0.00024	0.21016	-1009.3	-974.2	
41	167.0	2252.1	L: 147773 MOS29-32	13.8	147849	MOS	115			115	8	216.2	258.0	0.25000	0.25000	216.0	257.8
			C:GEN:IND PT 2														
			Remove unit 2 from bus			126651	IND	PT 2		22.0	1021.8	MW		dispatch			

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42	167.0	2252.1	L: 147769 MOS25-28	13.8	147849	MOS	115	115	7	216.3	258.0	0.24995	0.25000	216.0	257.8		
			C:GEN:IND PT 2-New														
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	1	0.00000	0.10239	-493.4	-476.3		
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	2	-0.00024	0.20478	-986.8	-952.6		
43	167.1	2252.1	L: 147773 MOS29-32	13.8	147849	MOS	115	115	8	216.2	258.0	0.24995	0.25000	216.0	257.8		
			C:GEN:IND PT 3-New														
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	1	0.00000	-0.10564	506.2	488.5		
			Open 147798 IP#3 GEN			22.0	147832	IP3	345	345	2	-0.00024	0.21016	-1009.3	-974.2		
46	167.1	2252.2	L: 147773 MOS29-32	13.8	147849	MOS	115	115	8	216.2	258.0	0.24995	0.25000	216.0	257.8		
			C:GEN:IND PT 2-New														
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	1	0.00000	0.10239	-493.4	-476.3		
			Open 126288 IP2 345			345	126651	IND	PT 2	22.0	2	-0.00024	0.20478	-986.8	-952.6		
1901	167.7	2252.8	L: 147764 MOS17-20	13.8	147839	MOSES	E	230	5	216.1	258.0	0.25000					
			Base Case														
3756	167.7	2252.8	L: 147767 MOS21-24	13.8	147840	MOSES	W	230	6	216.1	258.0	0.25000					
			Base Case														
3916	167.9	2253.0	L: 147769 MOS25-28	13.8	147849	MOS	115	115	7	216.0	258.0	0.25000					
			Base Case														
6851	168.0	2253.1	L: 147773 MOS29-32	13.8	147849	MOS	115	115	8	216.0	258.0	0.25000					
			Base Case														
7433	247.1	2331.7	L: 147827 MARCY765	765	147833	MARCY	T1	345	1	1584.7	1756.0	0.69335	0.38895	888.0	984.1		This is a valid contingency.
			C:147827 MARCY765	765	147833	MARCY	T1	345	2	1313							Post-contingency loading on T1 is 1756 MW.
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			0.89995	0.33824	774.1	857.7		Per NYPA, SPS action will trip Marcy T1 only when
7434	599.5	2682.0	L: 147827 MARCY765	765	147833	MARCY	T1	345	2	1561.5	1971.0	0.68310	0.33824	774.1	976.9		T1 loading exceeds 1409 A at 765kV (1866 MVA).
			C:147827 MARCY765	765	147833	MARCY	T1	345	1	1312			0.88665	0.38895	888.0	1121.2	
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1				0.88665	0.38895	888.0	1121.2	
7435	704.9	2786.9	L: 136778 LOWVILLE	115	136807	TAYLORVL	115	115	1	-110.6	-134.0	-0.03312	-0.02280	-73.4	-89.5		
			C:136761 BU+LY+MO	115	137221	BOONVL	115	115	1	969							
			Open 136761 BU+LY+MO	115	137221	BOONVL	115	115	1				-0.45294	0.02279	82.3	98.3	
7436	704.9	2786.9	L: 136778 LOWVILLE	115	136807	TAYLORVL	115	115	1	-110.6	-134.0	-0.03312	-0.02280	-73.4	-89.5		
			C:Lyons Falls Tap														
			Open 136761 BU+LY+MO	115	137221	BOONVL	115	115	1				-0.45294	0.02279	82.3	98.3	
7437	726.5	2808.3	L: 136759 BRNS FLS	115	136807	TAYLORVL	115	115	2	77.3	134.0	0.07803	0.03608	48.0	74.2		
			C:SPS:MARCY_AT1_AT2														
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1				0.05768	0.38895	888.0	1170.6	
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2				0.05768	0.33824	774.1	1019.9	
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA							
			Open 147828 MASS 765	765	180819	CHA-NY	765	765	1	NA							
			Open 156 MCY765SW	765	147827	MARCY765	765	765	1	NA							
			Open 147838 MASS230B	230	147839	MOSES	E	230	1				-0.00000	-0.36360	-150.7	-414.8	
			Open 147828 MASS 765	765	147838	MASS230B	230	230	1	NA							
			Open 147837 MASS230A	230	147839	MOSES	E	230	1				0.04893	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837	MASS230A	230	230	1	NA							
7438	727.4	2809.2	L: 136759 BRNS FLS	115	136807	TAYLORVL	115	115	2	77.2	134.0	0.07803	0.03608	48.0	74.3		
			C:HQ-NY-765-New														
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA							
			Open 147828 MASS 765	765	180819	CHA-NY	765	765	1	NA							
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1				0.05768	0.38895	888.0	1171.0	
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2				0.05768	0.33824	774.1	1020.2	
			Open 156 MCY765SW	765	147827	MARCY765	765	765	1	NA							
			Open 147838 MASS230B	230	147839	MOSES	E	230	1				-0.00000	-0.36360	-150.7	-415.2	
			Open 147828 MASS 765	765	147838	MASS230B	230	230	1	NA							
			Open 147837 MASS230A	230	147839	MOSES	E	230	1				0.04893	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837	MASS230A	230	230	1	NA							
			Open 158 MS765SW2	765	147828	MASS	765	765	1	NA							
			Open 157 MS765SW1	765	147828	MASS	765	765	1	NA							
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch								
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch								
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch								
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch								
7439	728.8	2810.6	L: 147836 ADRON B2	230	147840	MOSES	W	230	1	-266.4	-440.0	-0.23822	-0.10033	-167.3	-240.5		
			C:SPS:MARCY_AT1_AT2														
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1				-0.18963	0.38895	888.0	1171.5	
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2				-0.18963	0.33824	774.1	1020.7	
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA							
			Open 147828 MASS 765	765	180819	CHA-NY	765	765	1	NA							
			Open 156 MCY765SW	765	147827	MARCY765	765	765	1	NA							
			Open 147838 MASS230B	230	147839	MOSES	E	230	1				0.00000	-0.36360	-150.7	-415.7	
			Open 147828 MASS 765	765	147838	MASS230B	230	230	1	NA							
			Open 147837 MASS230A	230	147839	MOSES	E	230	1				-0.15884	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837	MASS230A	230	230	1	NA							
7440	728.9	2810.7	L: 147835 ADRON B1	230	147840	MOSES	W	230	1	-266.4	-440.0	-0.23821	-0.10032	-167.3	-240.5		
			C:SPS:MARCY_AT1_AT2														





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				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				-0.04904	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA						
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA						
				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch						
7451	823.7	2904.9	L:	136761 BU+LY+MO	115 137221 BOONVL	115 1		103.8	146.0	0.05126	0.02279	82.3	101.1
				C:SPS:MARCY_AT1_AT2		1699							
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.03915	0.38895	888.0	1208.4
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.03915	0.33824	774.1	1052.7
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.36360	-150.7	-450.2
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.03203	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
7452	824.5	2905.7	L:	136761 BU+LY+MO	115 137221 BOONVL	115 1		103.7	146.0	0.05126	0.02279	82.3	101.1
				C:HQ-NY-765-New		1880							
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.03915	0.38895	888.0	1208.7
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.03915	0.33824	774.1	1053.0
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.36360	-150.7	-450.4
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.03203	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA						
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA						
				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch						
7453	882.7	2963.6	L:	136778 LOWVILLE	115 136807 TAYLORVL	115 1		-104.8	-134.0	-0.03312	-0.02280	-73.4	-93.5
				C:Boon-Taylor		1817							
				Open 136761 BU+LY+MO	115 137221 BOONVL	115 1				-0.45294	0.02279	82.3	102.4
				Open 136761 BU+LY+MO	115 136848 LYNDL MR	115 1	NA						
				Open 136758 BREMEN	115 136761 BU+LY+MO	115 1	NA						
				Open 136758 BREMEN	115 136807 TAYLORVL	115 1				-0.28916	0.00000	-20.4	-20.4
7454	920.7	3001.4	L:	136761 BU+LY+MO	115 137221 BOONVL	115 1		115.5	146.0	0.03312	0.02279	82.3	103.3
				C:136778 LOWVILLE	115 136807 TAYLORVL	115 1	993						
				Open 136778 LOWVILLE	115 136807 TAYLORVL	115 1				-0.45282	-0.02280	-73.4	-94.4
7455	920.7	3001.4	L:	136761 BU+LY+MO	115 137221 BOONVL	115 1		115.5	146.0	0.03312	0.02279	82.3	103.3
				C:Lowville-Taylorvl		1807							
				Open 136778 LOWVILLE	115 136807 TAYLORVL	115 1				-0.45282	-0.02280	-73.4	-94.4
7456	923.3	3004.0	L:	136764 COLTON	115 136771 FLAT RCK	115 1		70.1	142.0	0.07785	0.03600	40.9	74.1
				C:SPS:MARCY_AT1_AT2		1699							
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.05755	0.38895	888.0	1247.2
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.05755	0.33824	774.1	1086.4
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.36360	-150.7	-486.4
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.04881	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
7457	924.2	3004.9	L:	136764 COLTON	115 136771 FLAT RCK	115 1		70.1	142.0	0.07785	0.03600	40.9	74.2
				C:HQ-NY-765-New		1880							
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.05755	0.38895	888.0	1247.5
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.05755	0.33824	774.1	1086.7
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.36360	-150.7	-486.7
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.04881	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA						
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA						

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				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch				
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch				
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch				
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch				
7458	964.4	3044.8	L:	136759 BRNS FLS	115	136807 TAYLORVL	115	2	77.7	134.0	0.05838	0.03608 48.0 82.8
			C:	136759 BRNS FLS	115	136807 TAYLORVL	115	1	966			
				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1		0.61818	0.03608	48.0 82.8
7459	981.5	3061.8	L:	136759 BRNS FLS	115	136807 TAYLORVL	115	1	77.7	135.0	0.05838	0.03608 48.0 83.4
			C:	136759 BRNS FLS	115	136807 TAYLORVL	115	2	967			
				Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2		0.61818	0.03608	48.0 83.4
7460	983.3	3063.6	L:	136778 LOWVILLE	115	136807 TAYLORVL	115	1	-101.4	-134.0	-0.03312	-0.02280 -73.4 -95.8
			C:	Taylorvl-Bremen					1810			
				Open 136758 BREMEN	115	136807 TAYLORVL	115	1		0.45294	-0.02279	-61.9 -84.3
7461	983.3	3063.6	L:	136778 LOWVILLE	115	136807 TAYLORVL	115	1	-101.4	-134.0	-0.03312	-0.02280 -73.4 -95.8
			C:	136758 BREMEN	115	136807 TAYLORVL	115	1	962			
				Open 136758 BREMEN	115	136807 TAYLORVL	115	1		0.45294	-0.02279	-61.9 -84.3
7462	986.8	3067.0	L:	136758 BREMEN	115	136807 TAYLORVL	115	1	-83.4	-134.0	-0.05126	-0.02279 -61.9 -84.4
			C:	SPS:MARCY_AT1_AT2					1699			
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03915	0.38895	888.0 1271.8
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03915	0.33824	774.1 1107.9
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA			
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA			
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA			
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36360	-150.7 -509.5
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA			
				Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.03203	0.00000	-1360.8 -1360.8
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA			
7463	987.5	3067.8	L:	136758 BREMEN	115	136807 TAYLORVL	115	1	-83.4	-134.0	-0.05126	-0.02279 -61.9 -84.4
			C:	HQ-NY-765-New					1880			
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA			
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA			
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03915	0.38895	888.0 1272.1
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03915	0.33824	774.1 1108.2
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA			
				Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36360	-150.7 -509.7
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA			
				Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.03203	0.00000	-153.0 -153.0
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA			
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA			
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA			
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch				
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch				
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch				
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch				
7464	1053.8	3133.7	L:	137200 EDIC	345	147833 MARCY T1	345	1	-1274.0	-1793.0	-0.49251	-0.32230 -589.3 -928.9
			C:	137453 N.SCOT99	345	147833 MARCY T1	345	1	1094			
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.76284	-0.22313	-897.5 -1132.7
7465	1060.7	3140.5	L:	137200 EDIC	345	147833 MARCY T1	345	1	-1273.0	-1793.0	-0.49030	-0.32230 -589.3 -931.2
			C:	BUS:N.S._99					1718			
				Open 137453 N.SCOT99	345	147831 GILB	345	1		0.02135	-0.01232	-452.4 -465.5
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.76925	-0.22313	-897.5 -1134.2
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.00294	-0.00993	272.2 261.7
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-0.02707	-0.14321	-625.4 -777.3
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.09598	0.00000	3.3 3.3
7466	1071.2	3151.0	L:	137532 RTRDM1	115	137730 ROTRDM.2	230	2	-352.5	-402.0	-0.04617	-0.03215 -245.5 -279.9
			C:	137532 RTRDM1	115	137730 ROTRDM.2	230	1	1180			
				Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1		0.42321	-0.03313	-252.9 -288.4
7467	1075.8	3155.5	L:	136778 LOWVILLE	115	136807 TAYLORVL	115	1	-98.4	-134.0	-0.03312	-0.02280 -73.4 -97.9
			C:	136758 BREMEN	115	136761 BU+LY+MO	115	1	961			
				Open 136758 BREMEN	115	136761 BU+LY+MO	115	1		-0.45294	0.02279	55.2 79.7
7468	1075.8	3155.5	L:	136778 LOWVILLE	115	136807 TAYLORVL	115	1	-98.4	-134.0	-0.03312	-0.02280 -73.4 -97.9
			C:	Bremen-Lyons Falls Tap					1809			
				Open 136758 BREMEN	115	136761 BU+LY+MO	115	1		-0.45294	0.02279	55.2 79.7
7469	1085.8	3165.4	L:	137200 EDIC	345	147833 MARCY T1	345	1	-1259.3	-1793.0	-0.49155	-0.32230 -589.3 -939.3
			C:	SIN:180					1775			
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.75851	-0.22313	-897.5 -1139.8
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.12277	0.00000	87.6 87.6
				Open 137235 PORTER 1	115	147905 ILION	115	1		0.00118	0.00001	44.6 44.6
7470	1085.8	3165.5	L:	137200 EDIC	345	147833 MARCY T1	345	1	-1259.3	-1793.0	-0.49155	-0.32230 -589.3 -939.3
			C:	SIN:170					1774			
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.75851	-0.22313	-897.5 -1139.8
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.12263	0.00000	87.6 87.6
				Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00177	0.00001	39.5 39.6

# TotalEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 31 2012 10:42  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev6.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3765  
 First violation - 795.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3765 violations

Interface-1 Interface 5 TOTAL EAST Init.Flow= 6372.04 TDF= 1.0005

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	795.4	7167.8	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	333.9	383.0	0.06176	0.05064	268.8 309.1
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11472	-0.09693	-566.9 -644.0
2	806.7	7179.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	333.2	383.0	0.06172	0.05064	268.8 309.7
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00556	-0.02203	60.7 43.0
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11488	-0.09693	-566.9 -645.1
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00931	-0.01940	-44.6 -60.2
			Open 95593 CHERYFLT 345 95594 CHERYWIND 34.5 1 NA					
3	823.5	7196.0	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	332.1	383.0	0.06176	0.05064	268.8 310.6
			C:SER:HC-WC_30&W-F_171 1704					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04708	0.00524	-19.8 -15.5
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11404	-0.09693	-566.9 -646.7
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00954	-0.01940	-44.6 -60.5
			Open 95593 CHERYFLT 345 95594 CHERYWIND 34.5 1 NA					
4	836.5	7209.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-331.3	-383.0	-0.06176	-0.05064	-266.3 -308.7
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11472	-0.09693	-566.9 -647.9
5	847.8	7220.3	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-330.7	-383.0	-0.06172	-0.05064	-266.3 -309.2
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			0.00556	-0.02203	60.7 42.1
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11488	-0.09693	-566.9 -649.0

**TotalEast**

				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00931	-0.01940	-44.6	-61.0		
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
6	864.7	7237.2	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-329.6	-383.0	-0.06176	-0.05064	-266.3	-310.1
				C:SER:HC-WC_30&W-F_171				1704							
				Open 135277 FALCONER	115	200579 WARREN	115	1		-0.04708	0.00524	-19.8	-15.2		
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.11404	-0.09693	-566.9	-650.7		
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00954	-0.01940	-44.6	-61.3		
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
7	874.8	7247.2	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		330.4	383.0	0.06012	0.05064	268.8	313.1
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.11472	0.08257	536.7	608.9		
8	911.0	7283.5	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		328.8	383.0	0.05954	0.05064	268.8	315.0
				C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.11472	-0.07753	-522.3	-592.9		
9	917.0	7289.5	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-327.9	-383.0	-0.06012	-0.05064	-266.3	-312.7
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		-0.11472	0.08257	536.7	612.4		
10	953.6	7326.2	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-326.2	-383.0	-0.05954	-0.05064	-266.3	-314.6
				C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451						
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.11472	-0.07753	-522.3	-596.2		
11	1087.3	7459.9	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		334.4	383.0	0.04474	0.05064	268.8	323.9
				C:BUS:WATERCURE_345				1735							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.04490	-0.09693	-566.9	-672.3		
				Open 130757 WATRC345	345	130768 WATRC230	230	1		0.15973	-0.06424	250.8	180.9		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.03651	0.00000	-0.0	-0.0		
12	1144.1	7516.7	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-331.8	-383.0	-0.04474	-0.05064	-266.3	-324.2
				C:BUS:WATERCURE_345				1735							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.04490	-0.09693	-566.9	-677.8		
				Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.15973	-0.06424	250.8	177.3		
				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.03651	0.00000	-0.0	-0.0		
13	1199.2	7571.9	L:	130750 COOPC345	345	130753 FRASR345	345	1		-941.2	-1207.0	-0.22166			
				Base Case											
14	1449.3	7822.0	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		302.9	383.0	0.05524	0.05064	268.8	342.2
				C:130755 OAKDL345	345	131128 LAPEER	345	1	276						
				Open 130755 OAKDL345	345	131128 LAPEER	345	1		-0.06204	-0.07412	-549.5	-657.0		
15	1487.7	7860.5	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		303.5	383.0	0.05346	0.05064	268.8	344.2
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461						
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1		-0.05472	-0.05139	-632.9	-709.3		
16	1495.3	7868.1	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1		-300.4	-383.0	-0.05524	-0.05064	-266.3	-342.0
				C:130755 OAKDL345	345	131128 LAPEER	345	1	276						
				Open 130755 OAKDL345	345	131128 LAPEER	345	1		0.06204	-0.07412	-549.5	-660.4		
17	1510.8	7883.6	L:	137532 RTRDM1	115	137730 ROTRDM.2	230	2		-352.5	-402.0	-0.03274	-0.02279	-245.5	-279.9
				C:137532 RTRDM1	115	137730 ROTRDM.2	230	1	1180						
				Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1		0.42321	-0.02349	-252.9	-288.4		
18	1514.7	7887.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		298.1	383.0	0.05605	0.05064	268.8	345.6
				C:130774 BATH 115	115	131347 HOWARD	115	1	298						



**TotalEast**

			Open 130774 BATH 115	115	131347 HOWARD	115	1				-0.28686	-0.01885	-102.0	-130.5
19	1535.2	7908.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-300.9	-383.0	-0.05346		-0.05064	-266.3	-344.1
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1							461
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.05472	-0.05139	-632.9	-711.8
20	1560.1	7932.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-295.6	-383.0	-0.05605		-0.05064	-266.3	-345.3
			C:130774 BATH 115	115	131347 HOWARD	115	1							298
			Open 130774 BATH 115	115	131347 HOWARD	115	1				0.28686	-0.01885	-102.0	-131.4
21	1570.9	7943.8	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	295.4	383.0	0.05578		0.05064	268.8	348.4
			C:131342 BENET115	115	131347 HOWARD	115	1							471
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28686	0.01792	92.5	120.6
23	1616.5	7989.3	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-292.8	-383.0	-0.05578		-0.05064	-266.3	-348.2
			C:131342 BENET115	115	131347 HOWARD	115	1							471
			Open 131342 BENET115	115	131347 HOWARD	115	1				-0.28686	0.01792	92.5	121.4
24	1616.8	7989.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-336.6	-430.0	-0.05777				
			Base Case											
28	1704.7	8077.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1232.9	-1703.0	-0.27578		-0.22166	-941.2	-1319.0
			C:130750 COOPC345	345	147833 MARCY T1	345	1							262
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.42275	-0.12801	-690.0	-908.2
30	1738.8	8111.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1276.9	1685.0	0.23472		0.17029	800.8	1096.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1							272
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.53432	0.12059	891.0	1100.7
48	1879.0	8252.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-116.6	-173.0	-0.03002		-0.02147	-76.4	-116.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							1320
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05020	0.17029	800.8	1120.8
55	1888.9	8261.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1	1251.0	1793.0	0.28694		0.18136	814.7	1157.2
			C:125001 ROCK TAV	345	130750 COOPC345	345	2							71
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.62726	-0.16831	-695.6	-1013.6
72	1940.9	8314.0	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-566.9	-755.0	-0.09693				
			Base Case											
97	2043.5	8416.6	L: 130757 WATRC345	345	130768 WATRC230	230	1	486.1	600.0	0.05574		-0.06424	250.8	119.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1							273
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.74444	-0.16117	-316.1	-645.4
109	2072.5	8445.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	324.9	430.0	0.05073				
			Base Case											
145	2125.8	8499.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1197.6	-1793.0	-0.28006		-0.16831	-695.6	-1053.5
			C:130750 COOPC345	345	146754 MDTN TAP	345	1							261
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.61618	0.18136	814.7	1200.2
168	2151.5	8524.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-394.4	-540.0	-0.06766		-0.05777	-336.6	-460.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							280
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10202	-0.09693	-566.9	-775.4
173	2157.6	8530.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-392.9	-540.0	-0.06817		-0.05777	-336.6	-461.2
			C:SER:HCWC/NWES											1710
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02618	-0.02203	60.7	13.2
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							NA
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10277	-0.09693	-566.9	-776.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1							NA
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00751	-0.01940	-44.6	-86.4
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1							NA
189	2170.6	8543.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-393.2	-540.0	-0.06764		-0.05777	-336.6	-462.0



**TotalEast**

			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1		-0.11404	-0.09693	-566.9	-795.0			
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1		0.00954	-0.01940	-44.6	-90.2			
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3621	2397.2	8770.4	L:	130764	MEYER230	230	134750	DAIRY230	230	1		-385.6	-540.0	-0.06441		-0.05777	-336.6	-475.1
			C:	130754	KINTI345	345	149000	ROCH	345	1	272							
			Open	130754	KINTI345	345	149000	ROCH	345	1			-0.05501	0.12059	891.0	1180.1		
3642	2446.1	8819.4	L:	130751	CNDGUA_T	230	130761	AVOCA230	230	1		330.9	478.0	0.06012		0.05064	269.4	393.3
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	35							
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1			0.11472	0.08257	536.7	738.7		
3648	2468.3	8841.6	L:	137453	N.SCOT99	345	147833	MARCY T1	345	1		-1188.8	-1792.0	-0.24437		-0.18529	-897.5	-1354.9
			C:	SIN:160							1773							
			Open	137200	EDIC	345	137452	N.SCOT77	345	1			-0.34253	0.17247	800.2	1225.9		
			Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1			-0.19630	0.00000	87.6	87.6		
			Open	137235	PORTER 1	115	137246	VALLEY	115	1			-0.00028	-0.00474	39.5	27.8		
3649	2468.3	8841.6	L:	137453	N.SCOT99	345	147833	MARCY T1	345	1		-1188.8	-1792.0	-0.24437		-0.18529	-897.5	-1354.9
			C:	SIN:150							1772							
			Open	137200	EDIC	345	137452	N.SCOT77	345	1			-0.34253	0.17247	800.2	1225.9		
			Open	137228	INGMS-CD	115	137886	INGHAM-E	115	1			-0.19632	0.00000	87.6	87.6		
			Open	137235	PORTER 1	115	147905	ILION	115	1			-0.00018	-0.00536	44.6	31.4		
3650	2468.5	8841.8	L:	131018	LOUN5115	115	131850	CNYOG115	115	1		35.8	143.0	0.04344		0.02849	6.4	76.8
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	273							
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.09275	-0.16117	-316.1	-713.9		
3651	2474.7	8848.0	L:	137451	LEEDS 3	345	137453	N.SCOT99	345	2		-1107.9	-1724.0	-0.24896		-0.13024	-625.4	-947.7
			C:	BUS:N.S._77							1717							
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1			0.60280	-0.11185	-448.9	-725.7		
			Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1			0.39243	-0.00462	256.8	245.3		
			Open	120601	STARS-00601	13.8	137452	N.SCOT77	345	01	NA							
			Open	137200	EDIC	345	137452	N.SCOT77	345	1			-0.32357	0.17247	800.2	1227.0		
			Open	137450	ALPS345	345	137452	N.SCOT77	345	1			-0.25035	-0.02529	26.4	-36.2		
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1			-0.00000	-0.13030	-626.5	-949.0		
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	2			0.18840	0.00000	-250.0	-250.0		
3655	2497.6	8870.9	L:	130751	CNDGUA_T	230	130761	AVOCA230	230	1		329.3	478.0	0.05954		0.05064	269.4	395.9
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1451							
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1			-0.11472	-0.07753	-522.3	-715.9		
3662	2517.5	8890.8	L:	130848	S.OWE115	115	131850	CNYOG115	115	1		-33.6	-143.0	-0.04344		-0.02849	-4.3	-76.0
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	273							
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.09275	-0.16117	-316.1	-721.8		
3664	2525.1	8898.4	L:	130757	WATRC345	345	135249	ARMENMTN	345	1		-679.4	-927.0	-0.09805		-0.09693	-566.9	-811.6
			C:	SPS:MARCY_AT1_AT2							1699							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1			-0.02390	0.02491	888.0	950.9		
			Open	147827	MARCY765	765	147833	MARCY T1	345	2			-0.02390	0.02167	774.1	828.8		
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA							
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA							
			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.02329	-150.7	-209.5		
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1			0.05353	0.00000	-1360.8	-1360.8		

TotalEast

			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
3676	2559.0	8932.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.4	1724.0	0.23706		0.17247	800.2	1241.5
			C:BUS:N.S._99											1718
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1					-0.14464	-0.05225	-452.4 -586.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.35358	-0.18529	-897.5 -1371.7
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1					-0.08229	-0.00455	272.2 260.6
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2					0.06802	-0.13024	-625.4 -958.7
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1					-0.19903	0.00000	3.3 3.3
3679	2573.6	8947.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1166.1	-1792.0	-0.24318		-0.18529	-897.5	-1374.4
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1026						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.33566	0.17247	800.2 1244.0
3687	2584.8	8958.2	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1074.2	-1703.0	-0.24325		-0.22166	-941.2	-1514.1
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1089						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1					0.15022	-0.14367	-885.8 -1257.2
3692	2595.0	8968.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	382.7	540.0	0.06062		0.05073	324.9	456.5
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10202	-0.09693	-566.9 -818.4
3693	2598.1	8971.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	381.2	540.0	0.06113		0.05073	324.9	456.7
			C:SER:HCWC/NWES					1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					-0.02618	-0.02203	60.7 3.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10277	-0.09693	-566.9 -818.7
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					0.00751	-0.01940	-44.6 -95.0
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3696	2609.4	8982.7	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-671.2	-927.0	-0.09805		-0.09693	-566.9	-819.8
			C:HQ-NY-765-New					1880						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1					-0.02390	0.02491	888.0 953.0
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					-0.02390	0.02167	774.1 830.7
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1					-0.00000	-0.02329	-150.7 -211.4
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1					0.05353	0.00000	-153.0 -153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
3698	2613.3	8986.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.9	540.0	0.06202		0.05073	324.9	457.4
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.06627	0.17029	800.8 1245.8
3699	2613.4	8986.8	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1349.4	-1912.0	-0.21527		-0.14367	-885.8	-1261.3
			C:BUS:N.S._99					1718						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1					0.64505	-0.05225	-452.4 -589.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					0.17556	-0.18529	-897.5 -1381.8

**TotalEast**

			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.03798	-0.00455	272.2	260.3	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.03989	-0.13024	-625.4	-965.8	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12344	0.00000	3.3	3.3	
3700	2616.4	8989.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	381.5	540.0	0.06060	0.05073	324.9	457.6
			C:SER:HC-WC_30&W-F_171									1704	
			Open 135277 FALCONER	115	200579 WARREN	115	1		0.03207	0.00524	-19.8	-6.1	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		-0.10156	-0.09693	-566.9	-820.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00768	-0.01940	-44.6	-95.3	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3703	2626.2	8999.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-394.8	-540.0	-0.05530	-0.05777	-336.6	-488.3
			C:BUS:WATERCURE_345									1735	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.05133	-0.09693	-566.9	-821.4	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11597	-0.06424	250.8	82.1	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04448	0.00000	-0.0	-0.0	
3706	2633.3	9006.7	L: Interface 73 MarcySouthS					1631.2	2552.0	0.34967			
			Base Case										
3710	2642.4	9015.8	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-93.7	-173.0	-0.03002	-0.02147	-53.5	-110.2
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		-0.05020	0.17029	800.8	1250.8	
3711	2644.0	9017.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	536.7	755.0	0.08257			
			Base Case										
3715	2648.1	9021.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.0	1724.0	0.23261	0.17247	800.2	1256.9
			C:SIN:180									1775	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.32460	-0.18529	-897.5	-1388.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.18806	0.00000	87.6	87.6	
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00019	-0.00536	44.6	30.4	
3716	2648.1	9021.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1108.0	1724.0	0.23261	0.17247	800.2	1256.9
			C:SIN:170									1774	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.32460	-0.18529	-897.5	-1388.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.18804	0.00000	87.6	87.6	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00028	-0.00474	39.5	27.0	
3719	2652.1	9025.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-193.9	-317.0	-0.04641	-0.02088	-121.5	-176.9
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	72					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.17898	-0.14265	-404.5	-782.8	
3725	2680.2	9053.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1244.3	-1725.0	-0.17936	-0.13666	-944.3	-1310.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.30666	-0.13923	-978.1	-1351.3	
3730	2711.3	9084.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	379.6	540.0	0.05916	0.05073	324.9	462.4
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10202	0.08257	536.7	760.6	
3734	2732.4	9105.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1049.7	-1703.0	-0.23909	-0.22166	-941.2	-1546.9
			C:BUS:N.S._99									1718	
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.12289	-0.05225	-452.4	-595.2	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.05428	-0.18529	-897.5	-1403.8	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.00125	-0.00455	272.2	259.8	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.00725	-0.13024	-625.4	-981.3	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00459	0.00000	3.3	3.3	

TotalEast

3737	2759.0	9132.5	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1085.6	1724.0	0.23139	0.17247	800.2	1276.0
			C:137453 N.SCOT99	345	147833	MARCY T1	345	1						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1						
3738	2760.1	9133.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	378.1	540.0	0.05864	0.05073	324.9	464.9
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						
3740	2775.1	9148.5	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	372.0	540.0	0.06053	0.05064	314.2	454.7
			C:130757 WATRC345	345	135249	ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						
3741	2776.7	9150.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	370.5	540.0	0.06103	0.05064	314.2	454.8
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
3743	2789.4	9162.9	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	367.3	540.0	0.06192	0.05064	314.2	455.5
			C:147834 NIAG 345	345	149000	ROCH 345	345	1						
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1						
3744	2796.2	9169.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-375.2	-540.0	-0.05894	-0.05777	-336.6	-498.1
			C:SPS:MARCY_AT1_AT2											
			Open 147827 MARCY765	765	147833	MARCY T1	345	1						
			Open 147827 MARCY765	765	147833	MARCY T1	345	2						
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1						
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1						
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
3745	2796.7	9170.1	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	370.8	540.0	0.06050	0.05064	314.2	455.8
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579	WARREN	115	1						
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA					
3749	2816.9	9190.4	*L: 130764 MEYER230	230	134750	DAIRY230	230	1	-374.0	-540.0	-0.05894	-0.05777	-336.6	-499.3
			C:HQ-NY-765-New											
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833	MARCY T1	345	1						
			Open 147827 MARCY765	765	147833	MARCY T1	345	2						
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839	MOSES E	230	1						
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839	MOSES E	230	1						

**TotalEast**

			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch					
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch					
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch					
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch					
3750	2829.3	9202.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-944.3	-1331.0	-0.13666		
			Base Case										
3751	2839.5	9213.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-503.3	-707.0	-0.07175	-0.03871	-409.6 -519.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	72					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.23163	-0.14265	-404.5 -809.6
3752	2864.4	9237.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1221.6	-1725.0	-0.17574	-0.13666	-944.3 -1335.8
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	187					
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1				0.30047	-0.13005	-922.8 -1295.3
3753	2895.9	9269.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.05737	0.05073	324.9 471.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.05501	0.12059	891.0 1240.2
3754	2896.1	9269.6	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		369.0	540.0	0.05906	0.05064	314.2 460.8
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.10202	0.08257	536.7 775.8
3755	2923.2	9296.7	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1007.5	-1703.0	-0.23792	-0.22166	-941.2 -1589.1
			C:BUS:N.S._77					1717					
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.04141	-0.11185	-448.9 -775.9
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.02331	-0.00462	256.8 243.3
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06694	0.17247	800.2 1304.3
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.00095	-0.02529	26.4 -47.5
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.00000	-0.13030	-626.5 -1007.4
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.00057	0.00000	-250.0 -250.0
3756	2937.4	9311.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		800.8	1301.0	0.17029		
			Base Case										
3759	2946.5	9320.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		367.5	540.0	0.05855	0.05064	314.2 463.4
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10202	-0.07753	-522.3 -750.8
3762	2960.5	9334.1	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1012.3	-1703.0	-0.23331	-0.22166	-941.2 -1597.4
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1	65					
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1				0.08851	-0.13162	-803.1 -1192.8

CentralEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3761  
 First violation - 849.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3761 violations

Interface-1 Interface 6 CENTRAL EAST Init.Flow= 2386.67 TDF= 0.4547

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init Final	
1	849.4	2772.8	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	330.5	383.0	0.06176	0.05064	265.6 308.6	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1						
2	860.3	2777.8	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	329.9	383.0	0.06172	-0.11471 -0.09693	-566.4 -648.7	
			C:SER:HCWC/NWES 1710				0.05064	265.6 309.1	
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				-0.00556 -0.02203	56.7 37.7	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				-0.11487 -0.09693	-566.4 -649.8	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				0.00931 -0.01940	-44.6 -61.3	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
3	878.1	2785.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	328.8	383.0	0.06176	0.05064	265.6 310.0	
			C:SER:HC-WC_30&W-F_171 1704						
			Open 135277 FALCONER 115 200579 WARREN 115 1				0.04708 0.00524	-20.5 -15.9	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				-0.11404 -0.09693	-566.4 -651.5	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				0.00954 -0.01940	-44.6 -61.6	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
4	889.4	2791.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-328.1	-383.0	-0.06176	-0.05064	-263.1 -308.1	
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280						
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				0.11471 -0.09693	-566.4 -652.6	
5	900.4	2796.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-327.4	-383.0	-0.06172	-0.05064	-263.1 -308.7	
			C:SER:HCWC/NWES 1710						
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1				0.00556 -0.02203	56.7 36.9	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				0.11487 -0.09693	-566.4 -653.7	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				-0.00931 -0.01940	-44.6 -62.0	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
6	918.1	2804.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-326.3	-383.0	-0.06176	-0.05064	-263.1 -309.6	
			C:SER:HC-WC_30&W-F_171 1704						
			Open 135277 FALCONER 115 200579 WARREN 115 1				-0.04708 0.00524	-20.5 -15.7	
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1				0.11404 -0.09693	-566.4 -655.4	
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA					
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				-0.00954 -0.01940	-44.6 -62.4	
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA					
7	930.3	2809.6	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	327.1	383.0	0.06012	0.05064	265.6 312.7	
			C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35						
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1				0.11471 0.08257	536.2 613.0	
8	967.0	2826.3	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	325.4	383.0	0.05954	0.05064	265.6 314.5	
			C: 95593 CHERYFLT 345 200769 HOMER CY 345 1 1451						
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1				-0.11471 -0.07753	-521.8 -596.8	
9	971.4	2828.3	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-324.6	-383.0	-0.06012	-0.05064	-263.1 -312.3	
			C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35						
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1				-0.11471 0.08257	536.2 616.4	
10	1008.5	2845.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-323.0	-383.0	-0.05954	-0.05064	-263.1 -314.2	









CentralEast

				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.18806	0.00000	87.6	87.6
				Open 137235	PORTER 1	115	147905	ILION	115	1				0.00019	-0.00536	44.6	30.4
3695	2645.3	3589.4		L: 137200	EDIC	345	137452	N.SCOT77	345	1	1108.7	1724.0	0.23261		0.17247	800.7	1256.9
				C:SIN:170													1774
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.32460	-0.18529	-898.1	-1388.2
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.18804	0.00000	87.6	87.6
				Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00028	-0.00474	39.5	27.0
3697	2649.0	3591.0		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	379.4	540.0	0.06062		0.05073	321.6	456.0
				C:130757	WATRC345	345	135249	ARMENMTN	345	1	280						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10201	-0.09693	-566.4	-823.2
3700	2649.9	3591.4		L: 95593	CHERYFLT	345	135249	ARMENMTN	345	1	536.2	755.0	0.08257				
				Base Case													
3701	2650.0	3591.5		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	378.0	540.0	0.06112		0.05073	321.6	456.1
				C:SER:HCWC/NWES													1710
				Open 130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.02617	-0.02203	56.7	-1.7
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10276	-0.09693	-566.4	-823.3
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00752	-0.01940	-44.6	-96.0
				Open 95593	CHERYFLT	345	95594	CHERYWIND	34.5	1	NA						
3705	2661.9	3596.9		L: 135858	GOLAH115	115	135862	MUMFORD1	115	1	-93.1	-173.0	-0.03002		-0.02147	-53.1	-110.3
				C:147834	NIAG 345	345	149000	ROCH 345	345	1	1320						
				Open 147834	NIAG 345	345	149000	ROCH 345	345	1				-0.05019	0.17029	796.4	1249.7
3706	2670.1	3600.6		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	374.4	540.0	0.06202		0.05073	321.6	457.1
				C:147834	NIAG 345	345	149000	ROCH 345	345	1	1320						
				Open 147834	NIAG 345	345	149000	ROCH 345	345	1				0.06626	0.17029	796.4	1251.1
3707	2670.9	3601.0		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	378.2	540.0	0.06060		0.05073	321.6	457.1
				C:SER:HC-WC_30&W-F_171													1704
				Open 135277	FALCONER	115	200579	WARREN	115	1				0.03207	0.00524	-20.5	-6.5
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10156	-0.09693	-566.4	-825.3
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00768	-0.01940	-44.6	-96.4
				Open 95593	CHERYFLT	345	95594	CHERYWIND	34.5	1	NA						
3708	2671.5	3601.3		L: 126294	PLTVLLEY	345	137451	LEEDS 3	345	2	-1245.8	-1725.0	-0.17936		-0.13666	-945.5	-1310.6
				C:126294	PLTVLLEY	345	137451	LEEDS 3	345	1	185						
				Open 126294	PLTVLLEY	345	137451	LEEDS 3	345	1				0.30666	-0.13923	-979.3	-1351.3
3716	2697.6	3613.1		L: 130764	MEYER230	230	134750	DAIRY230	230	1	-390.8	-540.0	-0.05530		-0.05777	-333.4	-489.3
				C:BUS:WATERCURE_345													1735
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				0.05133	-0.09693	-566.4	-827.9
				Open 130757	WATRC345	345	130768	WATRC230	230	1				-0.11598	-0.06424	244.2	70.9
				Open 130755	OAKDL345	345	130757	WATRC345	345	1				0.04447	0.00000	0.0	0.0
3718	2715.5	3621.3		L: 130750	COOPC345	345	130753	FRASR345	345	1	-1053.8	-1703.0	-0.23909		-0.22166	-945.0	-1547.0
				C:BUS:N.S._99													1718
				Open 137453	N.SCOT99	345	147831	GILB 345	345	1				0.12288	-0.05225	-454.1	-596.0
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.05425	-0.18529	-898.1	-1401.2
				Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1				0.00125	-0.00455	272.2	259.9
				Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2				0.00725	-0.13024	-626.3	-979.9
				Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1				-0.00473	0.00000	3.4	3.4
3727	2756.2	3639.8		L: 137200	EDIC	345	137452	N.SCOT77	345	1	1086.2	1724.0	0.23139		0.17247	800.7	1276.0
				C:137453	N.SCOT99	345	147833	MARCY T1	345	1	1094						
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.31799	-0.18529	-898.1	-1408.8
3729	2766.7	3644.5		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	376.3	540.0	0.05916		0.05073	321.6	462.0
				C: 95593	CHERYFLT	345	135249	ARMENMTN	345	1	35						
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1				0.10201	0.08257	536.2	764.6
3735	2794.5	3657.2		L: 130764	MEYER230	230	134750	DAIRY230	230	1	-375.3	-540.0	-0.05894		-0.05777	-333.4	-494.9
				C:SPS:MARCY_ATL_AT2													1699
				Open 147827	MARCY765	765	147833	MARCY T1	345	1				-0.02517	0.02491	888.4	958.0
				Open 147827	MARCY765	765	147833	MARCY T1	345	2				-0.02517	0.02167	774.5	835.0
3738	2816.0	3666.9		L: 131122	WTHRS230	230	134750	DAIRY230	230	1	374.9	540.0	0.05864		0.05073	321.6	464.5
				C: 95593	CHERYFLT	345	200769	HOMER CY	345	1	1451						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.10201	-0.07753	-521.8	-740.1
3740	2820.7	3669.1		L: 126294	PLTVLLEY	345	137451	LEEDS 3	345	2	-945.5	-1331.0	-0.13666				
				Base Case													
3742	2829.0	3672.9		L: 95976	STONYCRK	230	131122	WTHRS230	230	1	367.3	540.0	0.06103		0.05064	311.0	454.2
				C:SER:HCWC/NWES													1710
				Open 130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.02617	-0.02203	56.7	-5.6
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10276	-0.09693	-566.4	-840.6
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00752	-0.01940	-44.6	-99.5

CentralEast

				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA											
3743	2829.5	3673.1	L:	95976 STONYCRK	230	131122 WTHRS230	230	1	368.7	540.0	0.06053	0.05064	311.0	454.2						
			C:	130757 WATRC345	345	135249 ARMENMTN	345	1	280											
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
3744	2830.1	3673.4	L:	146771 SHOEMI38	138	146772 SHOEMTAP	138	1	-503.9	-707.0	-0.07175	-0.03871	-409.8	-519.4						
			C:	125001 ROCK TAV	345	146754 MDTN TAP	345	1	72											
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1												
3745	2846.6	3680.9	L:	95976 STONYCRK	230	131122 WTHRS230	230	1	363.7	540.0	0.06192	0.05064	311.0	455.1						
			C:	147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
3747	2851.5	3683.1	L:	95976 STONYCRK	230	131122 WTHRS230	230	1	367.5	540.0	0.06050	0.05064	311.0	455.4						
			C:	SER:HC-WC_30&W-F_171					1704											
				Open 135277 FALCONER	115	200579 WARREN	115	1												
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA											
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA											
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA											
3748	2855.8	3685.0	L:	126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1223.1	-1725.0	-0.17574	-0.13666	-945.5	-1335.8						
			C:	126294 PLTVLLEY	345	137455 ATHENS	345	1	187											
				Open 126294 PLTVLLEY	345	137455 ATHENS	345	1												
3751	2870.3	3691.6	L:	130764 MEYER230	230	134750 DAIRY230	230	1	-370.8	-540.0	-0.05894	-0.05777	-333.4	-499.3						
			C:	HQ-NY-765-New					1880											
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA											
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA											
				Open 147827 MARCY765	765	147833 MARCY T1	345	1												
				Open 147827 MARCY765	765	147833 MARCY T1	345	2												
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA											
				Open 147838 MASS230B	230	147839 MOSES E	230	1												
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA											
				Open 147837 MASS230A	230	147839 MOSES E	230	1												
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA											
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA											
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA											
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch											
				Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch											
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch											
				Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch											
3753	2907.0	3708.3	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1011.4	-1703.0	-0.23792	-0.22166	-945.0	-1589.4						
			C:	BUS:N.S._77					1717											
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1												
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1												
				Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA											
				Open 137200 EDIC	345	137452 N.SCOT77	345	1												
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1												
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1												
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2												
3754	2943.8	3725.1	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1016.2	-1703.0	-0.23331	-0.22166	-945.0	-1597.6						
			C:	125000 HURLEY 3	345	137451 LEEDS 3	345	1	65											
				Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1												
3755	2951.8	3728.7	L:	95976 STONYCRK	230	131122 WTHRS230	230	1	365.7	540.0	0.05906	0.05064	311.0	460.4						
			C:	95593 CHERYFLT	345	135249 ARMENMTN	345	1	35											
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1												
3756	2955.2	3730.3	L:	131122 WTHRS230	230	134750 DAIRY230	230	1	370.5	540.0	0.05737	0.05073	321.6	471.6						
			C:	130754 KINTI345	345	149000 ROCH 345	345	1	272											
				Open 130754 KINTI345	345	149000 ROCH 345	345	1												
3757	2963.0	3733.8	L:	147834 NIAG 345	345	149000 ROCH 345	345	1	796.4	1301.0	0.17029	0.05500	0.12059	887.9	1244.2					
				Base Case																

## CE+FraserGilboa

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3761  
 First violation - 849.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3761 violations

Interface-1 Interface 7 CE+FRAS-GILB Init.Flow= 2572.19 TDF= 0.6506

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo
			C: Contingency description	__Ncon	Flow Rating	LODF		Init Fina
1	849.4	3124.8	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	330.5	383.0	0.06176	0.05064	265.6 308
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11471	-0.09693	-566.4 -648
2	860.3	3131.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	329.9	383.0	0.06172	0.05064	265.6 309
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00556	-0.02203	56.7 37
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11487	-0.09693	-566.4 -649
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00931	-0.01940	-44.6 -61
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
3	878.1	3143.5	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	328.8	383.0	0.06176	0.05064	265.6 310
			C:SER:HC-WC_30&W-F_171 1704					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04708	0.00524	-20.5 -15
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11404	-0.09693	-566.4 -651
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00954	-0.01940	-44.6 -61
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	889.4	3150.8	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-328.1	-383.0	-0.06176	-0.05064	-263.1 -308
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11471	-0.09693	-566.4 -652
5	900.4	3157.9	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-327.4	-383.0	-0.06172	-0.05064	-263.1 -308



CE+FraserGilboa

			C:147827 MARCY765	765	147833 MARCY T1	345	2	1313											
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.89992	0.02167	774.5	807					
17	1553.4	3582.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		300.0	383.0	0.05346		0.05064	265.6	344				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					-0.05472	-0.05139	-628.6	-708				
18	1558.0	3585.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-296.9	-383.0	-0.05524		-0.05064	-263.1	-342				
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.06204	-0.07412	-545.4	-660				
19	1576.4	3597.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		294.6	383.0	0.05605		0.05064	265.6	345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					-0.28685	-0.01885	-101.3	-131				
20	1599.6	3612.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-297.5	-383.0	-0.05346		-0.05064	-263.1	-344				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					0.05472	-0.05139	-628.6	-710				
21	1620.5	3626.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-292.2	-383.0	-0.05605		-0.05064	-263.1	-345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					0.28685	-0.01885	-101.3	-131				
22	1632.9	3634.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		291.9	383.0	0.05578		0.05064	265.6	348				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					0.28685	0.01792	91.8	121				
23	1671.6	3659.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-333.4	-430.0	-0.05777								
			Base Case																
25	1677.2	3663.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-289.4	-383.0	-0.05578		-0.05064	-263.1	-348				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					-0.28685	0.01792	91.8	121				
27	1690.3	3671.9	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1236.9	-1703.0	-0.27577		-0.22166	-945.0	-1319				
			C:130750 COOPC345	345	147833 MARCY T1	345	1	262											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.42268	-0.12801	-690.4	-906				
32	1764.6	3720.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		1270.8	1685.0	0.23471		0.17029	796.4	1096				
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.53428	0.12059	887.9	1100				
38	1877.4	3793.6	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		1254.3	1793.0	0.28693		0.18136	816.7	1157				
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71											
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2					-0.62722	-0.16831	-697.6	-1013				
41	1898.8	3807.5	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-116.0	-173.0	-0.03002		-0.02147	-76.0	-116				
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.05019	0.17029	796.4	1119				
53	1945.7	3838.0	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-566.4	-755.0	-0.09693								
			Base Case																
92	2079.9	3925.3	L: 130757 WATRC345	345	130768 WATRC230	230	1		484.1	600.0	0.05574		-0.06424	244.2	110				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.74443	-0.16117	-322.2	-657				
103	2114.3	3947.7	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1200.9	-1793.0	-0.28006		-0.16831	-697.6	-1053				
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	261											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.61614	0.18136	816.7	1200				
112	2136.0	3961.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		321.6	430.0	0.05073								



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148	2191.0	3997.6	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1182.4	-1793.0	-0.27870	-0.16831	-697.6	-1066
			C:SER:CMT34&MTR34				1695						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.56740	0.18136	816.7	1214
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.05247	-0.14265	-406.3	-718
153	2199.1	4002.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-391.2	-540.0	-0.06766	-0.05777	-333.4	-460
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10201	-0.09693	-566.4	-779
156	2203.3	4005.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.8	-540.0	-0.06816	-0.05777	-333.4	-460
			C:SER:HCWC/NWES				1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02617	-0.02203	56.7	8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10276	-0.09693	-566.4	-780
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00752	-0.01940	-44.6	-87
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
175	2218.5	4015.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.0	-540.0	-0.06764	-0.05777	-333.4	-461
			C:SER:HC-WC_30&W-F_171				1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03207	0.00524	-20.5	-8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10156	-0.09693	-566.4	-781
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00768	-0.01940	-44.6	-87
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
181	2227.1	4021.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.2	-540.0	-0.06906	-0.05777	-333.4	-462
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.06626	0.17029	796.4	1175
184	2229.1	4022.4	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-932.9	-1345.0	-0.18488	-0.12801	-690.4	-975
			C:130750 COOPC345	345	130753 FRASR345	345	1	258					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.25656	-0.22166	-945.0	-1439
286	2291.0	4062.6	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1237.5	1685.0	0.19534	0.12059	887.9	1164
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.43897	0.17029	796.4	1186
295	2294.3	4064.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-388.1	-540.0	-0.06620	-0.05777	-333.4	-466
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10201	0.08257	536.2	725
1110	2318.7	4080.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	265.6	383.0	0.05064			
			Base Case										
1894	2333.9	4090.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1014.5	-1703.0	-0.29501	-0.22166	-945.0	-1462
			C:130753 FRASR345	345	147831 GILB 345	345	1	270					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.37434	0.19592	185.5	642
1898	2334.6	4091.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.7	-540.0	-0.06568	-0.05777	-333.4	-468
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10201	-0.07753	-521.8	-702
1987	2350.7	4101.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	311.0	430.0	0.05064			
			Base Case										

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2635	2367.5	4112.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-263.1	-383.0	-0.05064				
			Base Case												
3492	2379.1	4119.9	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	331.1	478.0	0.06176	0.05064	266.1	386	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11471	-0.09693	-566.4	-797
3544	2391.1	4127.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	330.4	478.0	0.06172	0.05064	266.1	387	
			C:SER:HCWC/NWES												1710
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.00556	-0.02203	56.7	4
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11487	-0.09693	-566.4	-798
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00931	-0.01940	-44.6	-91
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3568	2401.3	4134.4	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	38.7	143.0	0.04344	0.02849	8.8	77	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09274	-0.16117	-322.2	-709
3577	2407.9	4138.7	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	329.3	478.0	0.06176	0.05064	266.1	388	
			C:SER:HC-WC_30&W-F_171												1704
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.04708	0.00524	-20.5	-7
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11404	-0.09693	-566.4	-799
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00954	-0.01940	-44.6	-91
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3621	2449.1	4165.5	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.06441	-0.05777	-333.4	-474	
			C:130754 KINTI345	345	149000	ROCH	345	1	272						
			Open 130754 KINTI345	345	149000	ROCH	345	1				-0.05500	0.12059	887.9	1183
3623	2450.4	4166.3	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-36.6	-143.0	-0.04344	-0.02849	-6.7	-76	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.09274	-0.16117	-322.2	-717
3627	2465.5	4176.2	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354	
			C:SIN:150												1772
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.34253	0.17247	800.7	1225
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.19632	0.00000	87.6	87
			Open 137235 PORTER 1	115	147905	ILION	115	1				-0.00018	-0.00536	44.6	31
3628	2465.5	4176.2	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354	
			C:SIN:160												1773
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.34253	0.17247	800.7	1225
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.19630	0.00000	87.6	87
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				-0.00028	-0.00474	39.5	27
3631	2467.8	4177.6	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1109.6	-1724.0	-0.24896	-0.13024	-626.3	-947	
			C:BUS:N.S._77												1717
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.60280	-0.11185	-450.3	-726
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.39243	-0.00462	256.8	245
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.32357	0.17247	800.7	1226

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			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.25034	-0.02529	26.2	-36
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.00000	-0.13030	-627.4	-948
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.18840	0.00000	-250.0	-250
3647	2501.9	4199.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	327.6	478.0	0.06012		0.05064	266.1	392
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							35
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.11471	0.08257	536.2	742
3655	2553.9	4233.7	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	325.9	478.0	0.05954		0.05064	266.1	395
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							1451
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.11471	-0.07753	-521.8	-719
3656	2555.4	4234.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1118.2	1724.0	0.23706		0.17247	800.7	1241
			C:BUS:N.S._99											1718
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14465	-0.05225	-454.1	-587
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.35359	-0.18529	-898.1	-1371
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08229	-0.00455	272.2	260
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06802	-0.13024	-626.3	-959
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19903	0.00000	3.4	3
3660	2567.7	4242.7	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1078.4	-1703.0	-0.24325		-0.22166	-945.0	-1514
			C:137451 LEEDS 3	345	147831 GILB 345	345	1							1089
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.15021	-0.14367	-888.0	-1256
3664	2570.8	4244.7	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1166.8	-1792.0	-0.24318		-0.18529	-898.1	-1374
			C:137200 EDIC	345	137452 N.SCOT77	345	1							1026
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.33566	0.17247	800.7	1244
3673	2597.7	4262.2	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1352.8	-1912.0	-0.21527		-0.14367	-888.0	-1261
			C:BUS:N.S._99											1718
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64505	-0.05225	-454.1	-589
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17557	-0.18529	-898.1	-1379
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03798	-0.00455	272.2	260
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.03989	-0.13024	-626.3	-964
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12345	0.00000	3.4	3
3681	2614.3	4272.9	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-670.7	-927.0	-0.09805		-0.09693	-566.4	-819
			C:HQ-NY-765-New											1880
			Open 147827 MARCY765	765	147828 MASS 765	765	1							NA
			Open 147828 MASS 765	765	180819 CHA-NY	765	1							NA
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02391	0.02491	888.4	953
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02391	0.02167	774.5	831
			Open 156 MCY765SW	765	147827 MARCY765	765	1							NA
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.02329	-151.0	-211
			Open 147828 MASS 765	765	147838 MASS230B	230	1							NA
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.05349	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837 MASS230A	230	1							NA
			Open 158 MS765SW2	765	147828 MASS 765	765	1							NA
			Open 157 MS765SW1	765	147828 MASS 765	765	1							NA
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							

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3686	2621.2	4277.4	L: Interface	73	MarcySouthS				1635.4	2552.0	0.34967					
			Base Case													
3691	2640.7	4290.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-194.4	-317.0	-0.04641		-0.02088	-121.7	-176	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	72								
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17898	-0.14265	-406.3	-783		
3694	2645.3	4293.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1108.7	1724.0	0.23261		0.17247	800.7	1256	
			C:SIN:180					1775								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.32460	-0.18529	-898.1	-1388	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.18806	0.00000	87.6	87		
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00019	-0.00536	44.6	30		
3695	2645.3	4293.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1108.7	1724.0	0.23261		0.17247	800.7	1256	
			C:SIN:170					1774								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.32460	-0.18529	-898.1	-1388	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.18804	0.00000	87.6	87		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00028	-0.00474	39.5	27		
3697	2649.0	4295.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		379.4	540.0	0.06062		0.05073	321.6	456	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280								
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10201	-0.09693	-566.4	-823	
3700	2649.9	4296.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		536.2	755.0	0.08257					
			Base Case													
3701	2650.0	4296.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.0	540.0	0.06112		0.05073	321.6	456	
			C:SER:HCWC/NWES					1710								
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					-0.02617	-0.02203	56.7	-1	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10276	-0.09693	-566.4	-823	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00752	-0.01940	-44.6	-96		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA							
3705	2661.9	4304.0	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-93.1	-173.0	-0.03002		-0.02147	-53.1	-110	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.05019	0.17029	796.4	1249	
3706	2670.1	4309.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		374.4	540.0	0.06202		0.05073	321.6	457	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.06626	0.17029	796.4	1251	
3707	2670.9	4309.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.2	540.0	0.06060		0.05073	321.6	457	
			C:SER:HC-WC_30&W-F_171					1704								
			Open 135277 FALCONER	115	200579 WARREN	115	1					0.03207	0.00524	-20.5	-6	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10156	-0.09693	-566.4	-825	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00768	-0.01940	-44.6	-96		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA							
3708	2671.5	4310.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1245.8	-1725.0	-0.17936		-0.13666	-945.5	-1310	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185								
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.30666	-0.13923	-979.3	-1351	
3716	2697.6	4327.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-390.8	-540.0	-0.05530		-0.05777	-333.4	-489	



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			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1		-0.10156	-0.09693	-566.4	-842			
			Open	135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1		0.00768	-0.01940	-44.6	-99			
			Open	95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3748	2855.8	4430.1	L:	126294	PLTVLLEY	345	137451	LEEDS 3	345	2		-1223.1	-1725.0	-0.17574		-0.13666	-945.5	-1335
			C:	126294	PLTVLLEY	345	137455	ATHENS	345	1	187							
			Open	126294	PLTVLLEY	345	137455	ATHENS	345	1		0.30048	-0.13005	-923.9	-1295			
3751	2870.3	4439.5	*L:	130764	MEYER230	230	134750	DAIRY230	230	1		-370.8	-540.0	-0.05894		-0.05777	-333.4	-499
			C:	HQ-NY-765-New							1880							
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA							
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA							
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		-0.02517	0.02491	888.4	959			
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		-0.02517	0.02167	774.5	836			
			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA							
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.02329	-151.0	-217			
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA							
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.00239	0.00000	-153.0	-153			
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA							
			Open	158	MS765SW2	765	147828	MASS 765	765	1	NA							
			Open	157	MS765SW1	765	147828	MASS 765	765	1	NA							
			Decrease bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
			Set bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch							
			Decrease bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
			Set bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch							
3753	2907.0	4463.4	L:	130750	COOPC345	345	130753	FRASR345	345	1		-1011.4	-1703.0	-0.23792		-0.22166	-945.0	-1589
			C:	BUS:N.S._77							1717							
			Open	137452	N.SCOT77	345	137453	N.SCOT99	345	1		0.04140	-0.11185	-450.3	-775			
			Open	137452	N.SCOT77	345	137516	N.SCOT1	115	1		0.02330	-0.00462	256.8	243			
			Open	120601	STARS-00601	13.8	137452	N.SCOT77	345	01	NA							
			Open	137200	EDIC	345	137452	N.SCOT77	345	1		-0.06690	0.17247	800.7	1302			
			Open	137450	ALPS345	345	137452	N.SCOT77	345	1		-0.00094	-0.02529	26.2	-47			
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	1		-0.00000	-0.13030	-627.4	-1006			
			Open	137451	LEEDS 3	345	137452	N.SCOT77	345	2		0.00042	0.00000	-250.0	-250			
3754	2943.8	4487.3	L:	130750	COOPC345	345	130753	FRASR345	345	1		-1016.2	-1703.0	-0.23331		-0.22166	-945.0	-1597
			C:	125000	HURLEY 3	345	137451	LEEDS 3	345	1	65							
			Open	125000	HURLEY 3	345	137451	LEEDS 3	345	1		0.08849	-0.13162	-804.1	-1191			
3755	2951.8	4492.5	L:	95976	STONYCRK	230	131122	WTHRS230	230	1		365.7	540.0	0.05906		0.05064	311.0	460
			C:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	35							
			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1		0.10201	0.08257	536.2	779			
3756	2955.2	4494.8	L:	131122	WTHRS230	230	134750	DAIRY230	230	1		370.5	540.0	0.05737		0.05073	321.6	471
			C:	130754	KINTI345	345	149000	ROCH 345	345	1	272							
			Open	130754	KINTI345	345	149000	ROCH 345	345	1		0.05500	0.12059	887.9	1244			
3757	2963.0	4499.8	L:	147834	NIAG 345	345	149000	ROCH 345	345	1		796.4	1301.0	0.17029				
			Base Case															

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3761  
 First violation - 849.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3761 violations

Interface-1 Interface 8 CE-GROUP Init.Flow= 4086.57 TDF= 1.0002

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo
			C: Contingency description	Flow	Rating	LODF	Init	Fina
1	849.4	4936.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	330.5	383.0	0.06176	0.05064	265.6 308
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11471	-0.09693	-566.4 -648
2	860.3	4947.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	329.9	383.0	0.06172	0.05064	265.6 309
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00556	-0.02203	56.7 37
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11487	-0.09693	-566.4 -649
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00931	-0.01940	-44.6 -61
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
3	878.1	4964.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	328.8	383.0	0.06176	0.05064	265.6 310
			C:SER:HC-WC_30&W-F_171 1704					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04708	0.00524	-20.5 -15
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11404	-0.09693	-566.4 -651
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00954	-0.01940	-44.6 -61
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	889.4	4976.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-328.1	-383.0	-0.06176	-0.05064	-263.1 -308
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11471	-0.09693	-566.4 -652
5	900.4	4987.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-327.4	-383.0	-0.06172	-0.05064	-263.1 -308





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			C:147827 MARCY765	765	147833 MARCY T1	345	2	1313										
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				0.89992	0.02167	774.5	807				
17	1553.4	5640.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		300.0	383.0	0.05346		0.05064	265.6	344			
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461										
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					-0.05472	-0.05139	-628.6	-708			
18	1558.0	5645.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-296.9	-383.0	-0.05524		-0.05064	-263.1	-342			
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276										
			Open 130755 OAKDL345	345	131128 LAPEER	345	1					0.06204	-0.07412	-545.4	-660			
19	1576.4	5663.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		294.6	383.0	0.05605		0.05064	265.6	345			
			C:130774 BATH 115	115	131347 HOWARD	115	1	298										
			Open 130774 BATH 115	115	131347 HOWARD	115	1					-0.28685	-0.01885	-101.3	-131			
20	1599.6	5686.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-297.5	-383.0	-0.05346		-0.05064	-263.1	-344			
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461										
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					0.05472	-0.05139	-628.6	-710			
21	1620.5	5707.5	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-292.2	-383.0	-0.05605		-0.05064	-263.1	-345			
			C:130774 BATH 115	115	131347 HOWARD	115	1	298										
			Open 130774 BATH 115	115	131347 HOWARD	115	1					0.28685	-0.01885	-101.3	-131			
22	1632.9	5719.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		291.9	383.0	0.05578		0.05064	265.6	348			
			C:131342 BENET115	115	131347 HOWARD	115	1	471										
			Open 131342 BENET115	115	131347 HOWARD	115	1					0.28685	0.01792	91.8	121			
23	1671.6	5758.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-333.4	-430.0	-0.05777							
			Base Case															
25	1677.2	5764.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-289.4	-383.0	-0.05578		-0.05064	-263.1	-348			
			C:131342 BENET115	115	131347 HOWARD	115	1	471										
			Open 131342 BENET115	115	131347 HOWARD	115	1					-0.28685	0.01792	91.8	121			
27	1690.3	5777.3	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1236.9	-1703.0	-0.27577		-0.22166	-945.0	-1319			
			C:130750 COOPC345	345	147833 MARCY T1	345	1	262										
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.42268	-0.12801	-690.4	-906			
32	1764.6	5851.6	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		1270.8	1685.0	0.23471		0.17029	796.4	1096			
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272										
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.53428	0.12059	887.9	1100			
38	1877.4	5964.4	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		1254.3	1793.0	0.28693		0.18136	816.7	1157			
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71										
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2					-0.62722	-0.16831	-697.6	-1013			
41	1898.8	5985.8	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1		-116.0	-173.0	-0.03002		-0.02147	-76.0	-116			
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320										
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.05019	0.17029	796.4	1119			
53	1945.7	6032.8	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-566.4	-755.0	-0.09693							
			Base Case															
92	2079.9	6167.0	L: 130757 WATRC345	345	130768 WATRC230	230	1		484.1	600.0	0.05574		-0.06424	244.2	110			
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273										
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.74443	-0.16117	-322.2	-657			
103	2114.3	6201.4	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1200.9	-1793.0	-0.28006		-0.16831	-697.6	-1053			
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	261										
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.61614	0.18136	816.7	1200			
112	2136.0	6223.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		321.6	430.0	0.05073							

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Base Case													
148	2191.0	6278.1	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1182.4	-1793.0	-0.27870	-0.16831	-697.6	-1066
			C:SER:CMT34&MTR34				1695						
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.56740	0.18136	816.7	1214
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.05247	-0.14265	-406.3	-718
153	2199.1	6286.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-391.2	-540.0	-0.06766	-0.05777	-333.4	-460
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10201	-0.09693	-566.4	-779
156	2203.3	6290.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.8	-540.0	-0.06816	-0.05777	-333.4	-460
			C:SER:HCWC/NWES				1710						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02617	-0.02203	56.7	8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10276	-0.09693	-566.4	-780
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00752	-0.01940	-44.6	-87
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
175	2218.5	6305.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-390.0	-540.0	-0.06764	-0.05777	-333.4	-461
			C:SER:HC-WC_30&W-F_171				1704						
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03207	0.00524	-20.5	-8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10156	-0.09693	-566.4	-781
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00768	-0.01940	-44.6	-87
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
181	2227.1	6314.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.2	-540.0	-0.06906	-0.05777	-333.4	-462
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.06626	0.17029	796.4	1175
184	2229.1	6316.2	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-932.9	-1345.0	-0.18488	-0.12801	-690.4	-975
			C:130750 COOPC345	345	130753 FRASR345	345	1	258					
			Open 130750 COOPC345	345	130753 FRASR345	345	1			0.25656	-0.22166	-945.0	-1439
286	2291.0	6378.1	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1237.5	1685.0	0.19534	0.12059	887.9	1164
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.43897	0.17029	796.4	1186
295	2294.3	6381.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-388.1	-540.0	-0.06620	-0.05777	-333.4	-466
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10201	0.08257	536.2	725
1110	2318.7	6405.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	265.6	383.0	0.05064			
			Base Case										
1894	2333.9	6421.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1014.5	-1703.0	-0.29501	-0.22166	-945.0	-1462
			C:130753 FRASR345	345	147831 GILB 345	345	1	270					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.37434	0.19592	185.5	642
1898	2334.6	6421.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-386.7	-540.0	-0.06568	-0.05777	-333.4	-468
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10201	-0.07753	-521.8	-702
1987	2350.7	6437.9	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	311.0	430.0	0.05064			
			Base Case										

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2635	2367.5	6454.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-263.1	-383.0	-0.05064				
			Base Case												
3492	2379.1	6466.2	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	331.1	478.0	0.06176	0.05064	266.1	386	
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	280						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11471	-0.09693	-566.4	-797
3544	2391.1	6478.2	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	330.4	478.0	0.06172	0.05064	266.1	387	
			C:SER:HCWC/NWES												1710
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.00556	-0.02203	56.7	4
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11487	-0.09693	-566.4	-798
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00931	-0.01940	-44.6	-91
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3568	2401.3	6488.5	L: 131018 LOUNSL15	115	131850	CNYOG115	115	1	38.7	143.0	0.04344	0.02849	8.8	77	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.09274	-0.16117	-322.2	-709
3577	2407.9	6495.0	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	329.3	478.0	0.06176	0.05064	266.1	388	
			C:SER:HC-WC_30&W-F_171												1704
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.04708	0.00524	-20.5	-7
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11404	-0.09693	-566.4	-799
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00954	-0.01940	-44.6	-91
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3621	2449.1	6536.2	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.06441	-0.05777	-333.4	-474	
			C:130754 KINTI345	345	149000	ROCH	345	1	272						
			Open 130754 KINTI345	345	149000	ROCH	345	1				-0.05500	0.12059	887.9	1183
3623	2450.4	6537.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-36.6	-143.0	-0.04344	-0.02849	-6.7	-76	
			C:130755 OAKDL345	345	130757	WATRC345	345	1	273						
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.09274	-0.16117	-322.2	-717
3627	2465.5	6552.7	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354	
			C:SIN:150												1772
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.34253	0.17247	800.7	1225
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.19632	0.00000	87.6	87
			Open 137235 PORTER 1	115	147905	ILION	115	1				-0.00018	-0.00536	44.6	31
3628	2465.5	6552.7	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354	
			C:SIN:160												1773
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.34253	0.17247	800.7	1225
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.19630	0.00000	87.6	87
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				-0.00028	-0.00474	39.5	27
3631	2467.8	6554.9	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1109.6	-1724.0	-0.24896	-0.13024	-626.3	-947	
			C:BUS:N.S._77												1717
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				0.60280	-0.11185	-450.3	-726
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1				0.39243	-0.00462	256.8	245
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.32357	0.17247	800.7	1226

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			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.25034	-0.02529	26.2	-36
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-0.00000	-0.13030	-627.4	-948
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2				0.18840	0.00000	-250.0	-250
3647	2501.9	6589.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	327.6	478.0	0.06012		0.05064	266.1	392
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							35
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.11471	0.08257	536.2	742
3655	2553.9	6641.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	325.9	478.0	0.05954		0.05064	266.1	395
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							1451
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.11471	-0.07753	-521.8	-719
3656	2555.4	6642.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1118.2	1724.0	0.23706		0.17247	800.7	1241
			C:BUS:N.S._99											1718
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				-0.14465	-0.05225	-454.1	-587
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.35359	-0.18529	-898.1	-1371
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				-0.08229	-0.00455	272.2	260
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06802	-0.13024	-626.3	-959
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.19903	0.00000	3.4	3
3660	2567.7	6654.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1078.4	-1703.0	-0.24325		-0.22166	-945.0	-1514
			C:137451 LEEDS 3	345	147831 GILB 345	345	1							1089
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.15021	-0.14367	-888.0	-1256
3664	2570.8	6658.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1166.8	-1792.0	-0.24318		-0.18529	-898.1	-1374
			C:137200 EDIC	345	137452 N.SCOT77	345	1							1026
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.33566	0.17247	800.7	1244
3673	2597.7	6684.9	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1352.8	-1912.0	-0.21527		-0.14367	-888.0	-1261
			C:BUS:N.S._99											1718
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.64505	-0.05225	-454.1	-589
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.17557	-0.18529	-898.1	-1379
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.03798	-0.00455	272.2	260
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.03989	-0.13024	-626.3	-964
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.12345	0.00000	3.4	3
3681	2614.3	6701.5	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-670.7	-927.0	-0.09805		-0.09693	-566.4	-819
			C:HQ-NY-765-New											1880
			Open 147827 MARCY765	765	147828 MASS 765	765	1							NA
			Open 147828 MASS 765	765	180819 CHA-NY	765	1							NA
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02391	0.02491	888.4	953
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02391	0.02167	774.5	831
			Open 156 MCY765SW	765	147827 MARCY765	765	1							NA
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.02329	-151.0	-211
			Open 147828 MASS 765	765	147838 MASS230B	230	1							NA
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.05349	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837 MASS230A	230	1							NA
			Open 158 MS765SW2	765	147828 MASS 765	765	1							NA
			Open 157 MS765SW1	765	147828 MASS 765	765	1							NA
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0								
			Set bus 181319 CHAT G3	120	load to	357.0								
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0								
			Set bus 181419 CHAT G4	120	load to	357.0								

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3686	2621.2	6708.4	L: Interface	73	MarcySouthS				1635.4	2552.0	0.34967					
			Base Case													
3691	2640.7	6727.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-194.4	-317.0	-0.04641		-0.02088	-121.7	-176	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	72								
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17898	-0.14265	-406.3	-783		
3694	2645.3	6732.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1108.7	1724.0	0.23261		0.17247	800.7	1256	
			C:SIN:180					1775								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.32460	-0.18529	-898.1	-1388	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.18806	0.00000	87.6	87		
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00019	-0.00536	44.6	30		
3695	2645.3	6732.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1108.7	1724.0	0.23261		0.17247	800.7	1256	
			C:SIN:170					1774								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					-0.32460	-0.18529	-898.1	-1388	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.18804	0.00000	87.6	87		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00028	-0.00474	39.5	27		
3697	2649.0	6736.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		379.4	540.0	0.06062		0.05073	321.6	456	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280								
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10201	-0.09693	-566.4	-823	
3700	2649.9	6737.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		536.2	755.0	0.08257					
			Base Case													
3701	2650.0	6737.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.0	540.0	0.06112		0.05073	321.6	456	
			C:SER:HCWC/NWES					1710								
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					-0.02617	-0.02203	56.7	-1	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10276	-0.09693	-566.4	-823	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00752	-0.01940	-44.6	-96		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA							
3705	2661.9	6749.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-93.1	-173.0	-0.03002		-0.02147	-53.1	-110	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					-0.05019	0.17029	796.4	1249	
3706	2670.1	6757.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		374.4	540.0	0.06202		0.05073	321.6	457	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.06626	0.17029	796.4	1251	
3707	2670.9	6758.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		378.2	540.0	0.06060		0.05073	321.6	457	
			C:SER:HC-WC_30&W-F_171					1704								
			Open 135277 FALCONER	115	200579 WARREN	115	1					0.03207	0.00524	-20.5	-6	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.10156	-0.09693	-566.4	-825	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00768	-0.01940	-44.6	-96		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA							
3708	2671.5	6758.7	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1245.8	-1725.0	-0.17936		-0.13666	-945.5	-1310	
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185								
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1					0.30666	-0.13923	-979.3	-1351	
3716	2697.6	6784.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-390.8	-540.0	-0.05530		-0.05777	-333.4	-489	



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			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10156	-0.09693	-566.4	-842
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00768	-0.01940	-44.6	-99
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
3748	2855.8	6943.0	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1223.1	-1725.0	-0.17574	
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	187				
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.30048	-0.13005	-923.9	-1295
3751	2870.3	6957.5	*L: 130764 MEYER230	230	134750	DAIRY230	230	1		-370.8	-540.0	-0.05894	
			C:HQ-NY-765-New						1880				
			Open 147827 MARCY765	765	147828	MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833	MARCY T1	345	1		-0.02517	0.02491	888.4	959
			Open 147827 MARCY765	765	147833	MARCY T1	345	2		-0.02517	0.02167	774.5	836
			Open 156 MCY765SW	765	147827	MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.02329	-151.0	-217
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.00239	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA				
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA				
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch				
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch				
3753	2907.0	6994.3	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1011.4	-1703.0	-0.23792	
			C:BUS:N.S._77						1717				
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.04140	-0.11185	-450.3	-775
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1		0.02330	-0.00462	256.8	243
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA				
			Open 137200 EDIC	345	137452	N.SCOT77	345	1		-0.06690	0.17247	800.7	1302
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1		-0.00094	-0.02529	26.2	-47
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1		-0.00000	-0.13030	-627.4	-1006
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	2		0.00042	0.00000	-250.0	-250
3754	2943.8	7031.1	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1016.2	-1703.0	-0.23331	
			C:125000 HURLEY 3	345	137451	LEEDS 3	345	1	65				
			Open 125000 HURLEY 3	345	137451	LEEDS 3	345	1		0.08849	-0.13162	-804.1	-1191
3755	2951.8	7039.1	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		365.7	540.0	0.05906	
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		0.10201	0.08257	536.2	779
3756	2955.2	7042.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		370.5	540.0	0.05737	
			C:130754 KINTI345	345	149000	ROCH 345	345	1	272				
			Open 130754 KINTI345	345	149000	ROCH 345	345	1		0.05500	0.12059	887.9	1244
3757	2963.0	7050.3	L: 147834 NIAG 345	345	149000	ROCH 345	345	1		796.4	1301.0	0.17029	
			Base Case										

FtoG

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 17 2012 17:48  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3761  
 First violation - 849.4 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3761 violations

Interface-1 Interface 10 F-To-G Init.Flow= 3857.66 TDF= 0.5897

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=	Comment	
			C: Contingency description	Flow	Rating	LODF	Init	Final		
1	849.4	4358.5	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1	330.5	383.0	0.06176	0.05064	265.6 308.6		
2	860.3	4365.0	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA	329.9	383.0	0.06172	0.05064	265.6 309.1	-0.11471 -0.09693 -566.4 -648.7	
3	878.1	4375.4	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C:SER:HC-WC_30&W-F_171 1704 Open 135277 FALCONER 115 200579 WARREN 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA	328.8	383.0	0.06176	0.05064	265.6 310.0	0.04708 0.00524 -20.5 -15.9	
4	889.4	4382.1	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:130757 WATRC345 345 135249 ARMENMTN 345 1 280 Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA	-328.1	-383.0	-0.06176	-0.05064	-263.1 -308.1	0.11471 -0.09693 -566.4 -652.6	
5	900.4	4388.6	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:SER:HCWC/NWES 1710 Open 130836 N.WAV115 115 200676 E.SAYRE 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA	-327.4	-383.0	-0.06172	-0.05064	-263.1 -308.7	0.00931 -0.01940 -44.6 -61.3	
6	918.1	4399.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C:SER:HC-WC_30&W-F_171 1704 Open 135277 FALCONER 115 200579 WARREN 115 1 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1 NA Open 130757 WATRC345 345 135249 ARMENMTN 345 1 Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1 NA Open 95593 CHERYFLT 345 200769 HOMER CY 345 1 Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1 NA	-326.3	-383.0	-0.06176	-0.05064	-263.1 -309.6	0.00556 -0.02203 56.7 36.9	
7	930.3	4406.2	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	327.1	383.0	0.06012	0.05064	265.6 312.7	0.11471 0.08257 536.2 613.0	
8	967.0	4427.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1 C: 95593 CHERYFLT 345 200769 HOMER CY 345 1 1451 Open 95593 CHERYFLT 345 200769 HOMER CY 345 1	325.4	383.0	0.05954	0.05064	265.6 314.5	-0.11471 -0.07753 -521.8 -596.8	
9	971.4	4430.4	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1 C: 95593 CHERYFLT 345 135249 ARMENMTN 345 1 35 Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	-324.6	-383.0	-0.06012	-0.05064	-263.1 -312.3	-0.11471 0.08257 536.2 616.4	
10	1008.5	4452.3	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-323.0	-383.0	-0.05954	-0.05064	-263.1 -314.2		



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			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451												
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					0.11471	-0.07753	-521.8	-600.0					
11	1181.8	4554.5	L: 130750 COOPC345	345	130753 FRASR345	345	1													
			Base Case																	
12	1184.4	4556.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1					330.0	383.0	0.04474	0.05064	265.6	325.6			
			C:BUS:WATERCURE_345					1735												
			Open 130757 WATRC345	345	135249 ARMENMIN	345	1								-0.04490	-0.09693	-566.4	-681.2		
			Open 130757 WATRC345	345	130768 WATRC230	230	1								0.15973	-0.06424	244.2	168.1		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1								-0.03651	0.00000	0.0	0.0		
13	1239.7	4588.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1								-0.04474	-0.05064	-263.1	-325.9		
			C:BUS:WATERCURE_345					1735												
			Open 130757 WATRC345	345	135249 ARMENMIN	345	1								0.04490	-0.09693	-566.4	-686.6		
			Open 130757 WATRC345	345	130768 WATRC230	230	1								-0.15973	-0.06424	244.2	164.6		
			Open 130755 OAKDL345	345	130757 WATRC345	345	1								0.03651	0.00000	0.0	0.0		
14	1508.2	4747.0	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2								-0.03274	-0.02279	-245.6	-279.9		
			C:137532 RTRDM1	115	137730 ROTRDM.2	230	1	1180												
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1								0.42321	-0.02349	-253.0	-288.4		
15	1513.3	4750.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1								0.05524	0.05064	265.6	342.2		
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276												
			Open 130755 OAKDL345	345	131128 LAPEER	345	1								-0.06204	-0.07412	-545.4	-657.5		
16	1546.2	4769.4	L: 147827 MARCY765	765	147833 MARCY T1	345	1								0.04441	0.02491	888.4	926.9		
			C:147827 MARCY765	765	147833 MARCY T1	345	2	1313												
			Open 147827 MARCY765	765	147833 MARCY T1	345	2								0.89992	0.02167	774.5	807.9		
17	1553.4	4773.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1								0.05346	0.05064	265.6	344.2		
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461												
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1								-0.05472	-0.05139	-628.6	-708.4		
18	1558.0	4776.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1								-0.05524	-0.05064	-263.1	-342.0		
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276												
			Open 130755 OAKDL345	345	131128 LAPEER	345	1								0.06204	-0.07412	-545.4	-660.8		
19	1576.4	4787.2	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1								0.05605	0.05064	265.6	345.4		
			C:130774 BATH 115	115	131347 HOWARD	115	1	298												
			Open 130774 BATH 115	115	131347 HOWARD	115	1								-0.28685	-0.01885	-101.3	-131.1		
20	1599.6	4800.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1								-0.05346	-0.05064	-263.1	-344.1		
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461												
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1								0.05472	-0.05139	-628.6	-710.8		
21	1620.5	4813.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1								-0.05605	-0.05064	-263.1	-345.2		
			C:130774 BATH 115	115	131347 HOWARD	115	1	298												
			Open 130774 BATH 115	115	131347 HOWARD	115	1								0.28685	-0.01885	-101.3	-131.9		
22	1632.9	4820.5	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1								0.05578	0.05064	265.6	348.3		
			C:131342 BENET115	115	131347 HOWARD	115	1	471												
			Open 131342 BENET115	115	131347 HOWARD	115	1								0.28685	0.01792	91.8	121.1		
23	1671.6	4843.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1								-0.05777					
			Base Case																	
25	1677.2	4846.6	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1								-0.05578	-0.05064	-263.1	-348.0		
			C:131342 BENET115	115	131347 HOWARD	115	1	471												
			Open 131342 BENET115	115	131347 HOWARD	115	1								-0.28685	0.01792	91.8	121.9		
27	1690.3	4854.4	L: 130750 COOPC345	345	130753 FRASR345	345	1								-0.27577	-0.22166	-945.0	-1319.7		
			C:130750 COOPC345	345	147833 MARCY T1	345	1	262												
			Open 130750 COOPC345	345	147833 MARCY T1	345	1								0.42268	-0.12801	-690.4	-906.8		
32	1764.6	4898.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1								0.23471	0.17029	796.4	1096.9		
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272												
			Open 130754 KINTI345	345	149000 ROCH 345	345	1								0.53428	0.12059	887.9	1100.7		
38	1877.4	4964.7	L: 130750 COOPC345	345	146754 MDIN TAP	345	1								0.28693	0.18136	816.7	1157.2		
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71												
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2								-0.62722	-0.16831	-697.6	-1013.6		
41	1898.8	4977.3	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1								-0.03002	-0.02147	-76.0	-116.8		
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320												
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1								-0.05019	0.17029	796.4	1119.8		
53	1945.7	5005.0	L: 130757 WATRC345	345	135249 ARMENMIN	345	1								-0.09693					
			Base Case																	
92	2079.9	5084.1	L: 130757 WATRC345	345	130768 WATRC230	230	1								0.05574	-0.06424	244.2	110.6		
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273												
			Open 130755 OAKDL345	345	130757 WATRC345	345	1								-0.74443	-0.16117	-322.2	-657.4		
103	2114.3	5104.4	L: 125001 ROCK TAV	345	130750 COOPC345	345	2								-0.28006	-0.16831	-697.6	-1053.5		
			C:130750 COOPC345	345	146754 MDIN TAP	345	1	261												
			Open 130750 COOPC345	345	146754 MDIN TAP	345	1								-0.61614	0.18136	816.7	1200.2		
112	2136.0	5117.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1								0.05073					
			Base Case																	
148	2191.0	5149.6	L: 125001 ROCK TAV	345	130750 COOPC345	345	2								-0.27870	-0.16831	-697.6	-1066.4		
			C:SER:CMT34&MTR34					1695												
			Open 130750 COOPC345	345	146754 MDIN TAP	345	1								-0.56740	0.18136	816.7	1214.1		

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				Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1					0.05247	-0.14265	-406.3	-718.9
153	2199.1	5154.3	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-391.2	-540.0	-0.06766		-0.05777	-333.4	-460.5	
			C:	130757 WATRC345	345	135249	ARMENMTN	345	1				280				
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					0.10201	-0.09693	-566.4	-779.6
156	2203.3	5156.8	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-389.8	-540.0	-0.06816		-0.05777	-333.4	-460.7	
			C:	SER:HCWC/NWES									1710				
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					0.02617	-0.02203	56.7	8.2
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					0.10276	-0.09693	-566.4	-780.0
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					-0.00752	-0.01940	-44.6	-87.3
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
175	2218.5	5165.8	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-390.0	-540.0	-0.06764		-0.05777	-333.4	-461.6	
			C:	SER:HC-WC_30&W-F_171									1704				
				Open 135277 FALCONER	115	200579	WARREN	115	1					-0.03207	0.00524	-20.5	-8.9
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					0.10156	-0.09693	-566.4	-781.4
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					-0.00768	-0.01940	-44.6	-87.6
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
181	2227.1	5170.9	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-386.2	-540.0	-0.06906		-0.05777	-333.4	-462.1	
			C:	147834 NIAG 345	345	149000	ROCH 345	345	1	1320							
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1					-0.06626	0.17029	796.4	1175.7
184	2229.1	5172.1	L:	130750 COOPC345	345	147833	MARCY T1	345	1	-932.9	-1345.0	-0.18488		-0.12801	-690.4	-975.8	
			C:	130750 COOPC345	345	130753	FRASR345	345	1	258							
				Open 130750 COOPC345	345	130753	FRASR345	345	1					0.25656	-0.22166	-945.0	-1439.1
286	2291.0	5208.5	L:	130754 KINTI345	345	149000	ROCH 345	345	1	1237.5	1685.0	0.19534		0.12059	887.9	1164.1	
			C:	147834 NIAG 345	345	149000	ROCH 345	345	1	1320							
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1					0.43897	0.17029	796.4	1186.6
295	2294.3	5210.5	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-388.1	-540.0	-0.06620		-0.05777	-333.4	-466.0	
			C:	95593 CHERYFLT	345	135249	ARMENMTN	345	1	35							
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1					-0.10201	0.08257	536.2	725.6
1110	2318.7	5224.9	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1	265.6	383.0	0.05064					
				Base Case													
1894	2333.9	5233.9	L:	130750 COOPC345	345	130753	FRASR345	345	1	-1014.5	-1703.0	-0.29501		-0.22166	-945.0	-1462.4	
			C:	130753 FRASR345	345	147831	GILB 345	345	1	270							
				Open 130753 FRASR345	345	147831	GILB 345	345	1					-0.37434	0.19592	185.5	642.8
1898	2334.6	5234.2	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-386.7	-540.0	-0.06568		-0.05777	-333.4	-468.3	
			C:	95593 CHERYFLT	345	200769	HOMER CY	345	1	1451							
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					0.10201	-0.07753	-521.8	-702.8
1987	2350.7	5243.8	L:	95976 STONYCRK	230	131122	WTHRS230	230	1	311.0	430.0	0.05064					
				Base Case													
2635	2367.5	5253.7	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1	-263.1	-383.0	-0.05064					
				Base Case													
3492	2379.1	5260.5	L:	130751 CNDGUA_T	230	130761	AVOCA230	230	1	331.1	478.0	0.06176		0.05064	266.1	386.6	
			C:	130757 WATRC345	345	135249	ARMENMTN	345	1	280							
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					-0.11471	-0.09693	-566.4	-797.0
3544	2391.1	5267.6	L:	130751 CNDGUA_T	230	130761	AVOCA230	230	1	330.4	478.0	0.06172		0.05064	266.1	387.2	
			C:	SER:HCWC/NWES									1710				
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1					-0.00556	-0.02203	56.7	4.0
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					-0.11487	-0.09693	-566.4	-798.2
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					0.00931	-0.01940	-44.6	-91.0
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3568	2401.3	5273.6	L:	131018 LOUNGS115	115	131850	CNYOG115	115	1	38.7	143.0	0.04344		0.02849	8.8	77.2	
			C:	130755 OAKDL345	345	130757	WATRC345	345	1	273							
				Open 130755 OAKDL345	345	130757	WATRC345	345	1					-0.09274	-0.16117	-322.2	-709.2
3577	2407.9	5277.5	L:	130751 CNDGUA_T	230	130761	AVOCA230	230	1	329.3	478.0	0.06176		0.05064	266.1	388.0	
			C:	SER:HC-WC_30&W-F_171									1704				
				Open 135277 FALCONER	115	200579	WARREN	115	1					0.04708	0.00524	-20.5	-7.9
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1					-0.11404	-0.09693	-566.4	-799.8
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1					0.00954	-0.01940	-44.6	-91.3
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3621	2449.1	5301.8	L:	130764 MEYER230	230	134750	DAIRY230	230	1	-382.3	-540.0	-0.06441		-0.05777	-333.4	-474.9	
			C:	130754 KINTI345	345	149000	ROCH 345	345	1	272							
				Open 130754 KINTI345	345	149000	ROCH 345	345	1					-0.05500	0.12059	887.9	1183.2
3623	2450.4	5302.5	L:	130848 S.OWE115	115	131850	CNYOG115	115	1	-36.6	-143.0	-0.04344		-0.02849	-6.7	-76.5	
			C:	130755 OAKDL345	345	130757	WATRC345	345	1	273							

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				Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.09274	-0.16117	-322.2	-717.1	
3627	2465.5	5311.5	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354.9
				C:SIN:150										
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.34253	0.17247	800.7	1225.9	
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.19632	0.00000	87.6	87.6	
				Open 137235 PORTER 1	115	147905 ILLION	115	1		-0.00018	-0.00536	44.6	31.3	
3628	2465.5	5311.5	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1	-1189.5	-1792.0	-0.24437	-0.18529	-898.1	-1354.9
				C:SIN:160										
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.34253	0.17247	800.7	1225.9	
				Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.19632	0.00000	87.6	87.6	
				Open 137235 PORTER 1	115	137246 VALLEY	115	1		-0.00028	-0.00474	39.5	27.8	
3631	2467.8	5312.8	L:	137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1109.6	-1724.0	-0.24896	-0.13024	-626.3	-947.7
				C:BUS:N.S._77										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.60280	-0.11185	-450.3	-726.3	
				Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.39243	-0.00462	256.8	245.4	
				Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.32357	0.17247	800.7	1226.3	
				Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.25034	-0.02529	26.2	-36.2	
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-0.00000	-0.13030	-627.4	-948.9	
				Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2		0.18840	0.00000	-250.0	-250.0	
3647	2501.9	5332.9	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	327.6	478.0	0.06012	0.05064	266.1	392.8
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.11471	0.08257	536.2	742.8	
3655	2553.9	5363.6	L:	130751 CNDGUA_T	230	130761 AVOCA230	230	1	325.9	478.0	0.05954	0.05064	266.1	395.4
				C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.11471	-0.07753	-521.8	-719.8	
3656	2555.4	5364.5	L:	137200 EDIC	345	137452 N.SCOT77	345	1	1118.2	1724.0	0.23706	0.17247	800.7	1241.4
				C:BUS:N.S._99										
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1		-0.14465	-0.05225	-454.1	-587.6	
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.35359	-0.18529	-898.1	-1371.6	
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		-0.08229	-0.00455	272.2	260.6	
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.06802	-0.13024	-626.3	-959.1	
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.19903	0.00000	3.4	3.4	
3660	2567.7	5371.7	L:	130750 COOPC345	345	130753 FRASR345	345	1	-1078.4	-1703.0	-0.24325	-0.22166	-945.0	-1514.2
				C:137451 LEEDS 3	345	147831 GILB 345	345	1	1089					
				Open 137451 LEEDS 3	345	147831 GILB 345	345	1		0.15021	-0.14367	-888.0	-1256.9	
3664	2570.8	5373.6	L:	137453 N.SCOT99	345	147833 MARCY T1	345	1	-1166.8	-1792.0	-0.24318	-0.18529	-898.1	-1374.4
				C:137200 EDIC	345	137452 N.SCOT77	345	1	1026					
				Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.33566	0.17247	800.7	1244.1	
3673	2597.7	5389.4	L:	137451 LEEDS 3	345	147831 GILB 345	345	1	-1352.8	-1912.0	-0.21527	-0.14367	-888.0	-1261.2
				C:BUS:N.S._99										
				Open 137453 N.SCOT99	345	147831 GILB 345	345	1		0.64505	-0.05225	-454.1	-589.8	
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.17557	-0.18529	-898.1	-1379.4	
				Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.03798	-0.00455	272.2	260.4	
				Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.03989	-0.13024	-626.3	-964.6	
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.12345	0.00000	3.4	3.4	
3681	2614.3	5399.2	L:	130757 WATRC345	345	135249 ARMENMTN	345	1	-670.7	-927.0	-0.09805	-0.09693	-566.4	-819.8
				C:HQ-NY-765-New										
				Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02391	0.02491	888.4	953.5	
				Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02391	0.02167	774.5	831.1	
				Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.02329	-151.0	-211.9	
				Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05349	0.00000	-153.0	-153.0	
				Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
				Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
				Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
3686	2621.2	5403.3	L:	Interface 73 MarcySouthS					1635.4	2552.0	0.34967			
				Base Case										
3691	2640.7	5414.8	L:	146758 CHESTER	138	146771 SHOEM138	138	1	-194.4	-317.0	-0.04641	-0.02088	-121.7	-176.9
				C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	72					
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1		0.17898	-0.14265	-406.3	-783.0	
3694	2645.3	5417.5	L:	137200 EDIC	345	137452 N.SCOT77	345	1	1108.7	1724.0	0.23261	0.17247	800.7	1256.9
				C:SIN:180										
				Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.32460	-0.18529	-898.1	-1388.2	

Invalid contingency  
New Scotland will have breaker and a half

FtoG

				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.18806	0.00000	87.6	87.6
				Open 137235	PORTER 1	115	147905	ILLION	115	1				0.00019	-0.00536	44.6	30.4
3695	2645.3	5417.5	L:	137200	EDIC	345	137452	N.SCOT77	345	1	1108.7	1724.0	0.23261		0.17247	800.7	1256.9
				C:SIN:170								1774					
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.32460	-0.18529	-898.1	-1388.2
				Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.18804	0.00000	87.6	87.6
				Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00028	-0.00474	39.5	27.0
3697	2649.0	5419.7	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	379.4	540.0	0.06062		0.05073	321.6	456.0
				C:130757 WATRC345		345	135249	ARMENMTN	345	1	280						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10201	-0.09693	-566.4	-823.2
3700	2649.9	5420.2	L:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	536.2	755.0	0.08257				
				Base Case													
3701	2650.0	5420.2	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	378.0	540.0	0.06112		0.05073	321.6	456.1
				C:SER:HCWC/NWES													
				Open 130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.02617	-0.02203	56.7	-1.7
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10276	-0.09693	-566.4	-823.3
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00752	-0.01940	-44.6	-96.0
				Open 95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3705	2661.9	5427.3	L:	135858	GOLAH115	115	135862	MUMFORD1	115	1	-93.1	-173.0	-0.03002		-0.02147	-53.1	-110.3
				C:147834 NIAG 345		345	149000	ROCH 345	345	1	1320						
				Open 147834	NIAG 345	345	149000	ROCH 345	345	1				-0.05019	0.17029	796.4	1249.7
3706	2670.1	5432.1	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	374.4	540.0	0.06202		0.05073	321.6	457.1
				C:147834 NIAG 345		345	149000	ROCH 345	345	1	1320						
				Open 147834	NIAG 345	345	149000	ROCH 345	345	1				0.06626	0.17029	796.4	1251.1
3707	2670.9	5432.6	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	378.2	540.0	0.06060		0.05073	321.6	457.1
				C:SER:HC-WC_30&W-F_171													
				Open 135277	FALCONER	115	200579	WARREN	115	1				0.03207	0.00524	-20.5	-6.5
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10156	-0.09693	-566.4	-825.3
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00768	-0.01940	-44.6	-96.4
				Open 95593	CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3708	2671.5	5432.9	L:	126294	PLTVLLEY	345	137451	LEEDS 3	345	2	-1245.8	-1725.0	-0.17936		-0.13666	-945.5	-1310.6
				C:126294 PLTVLLEY		345	137451	LEEDS 3	345	1	185						
				Open 126294	PLTVLLEY	345	137451	LEEDS 3	345	1				0.30666	-0.13923	-979.3	-1351.3
3716	2697.6	5448.3	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-390.8	-540.0	-0.05530		-0.05777	-333.4	-489.3
				C:BUS:WATERCURE_345													
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				0.05133	-0.09693	-566.4	-827.9
				Open 130757	WATRC345	345	130768	WATRC230	230	1				-0.11598	-0.06424	244.2	70.9
				Open 130755	OAKDL345	345	130757	WATRC345	345	1				0.04447	0.00000	0.0	0.0
3718	2715.5	5458.9	L:	130750	COOPC345	345	130753	FRASR345	345	1	-1053.8	-1703.0	-0.23909		-0.22166	-945.0	-1547.0
				C:BUS:N.S._99													
				Open 137453	N.SCOT99	345	147831	GILB 345	345	1				0.12288	-0.05225	-454.1	-596.0
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.05425	-0.18529	-898.1	-1401.2
				Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1				0.00125	-0.00455	272.2	259.9
				Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2				0.00725	-0.13024	-626.3	-979.9
				Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1				-0.00473	0.00000	3.4	3.4
3727	2756.2	5482.8	L:	137200	EDIC	345	137452	N.SCOT77	345	1	1086.2	1724.0	0.23139		0.17247	800.7	1276.0
				C:137453 N.SCOT99		345	147833	MARCY T1	345	1	1094						
				Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.31799	-0.18529	-898.1	-1408.8
3729	2766.7	5489.1	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	376.3	540.0	0.05916		0.05073	321.6	462.0
				C: 95593 CHERYFLT		345	135249	ARMENMTN	345	1	35						
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1				0.10201	0.08257	536.2	764.6
3735	2794.5	5505.5	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-375.3	-540.0	-0.05894		-0.05777	-333.4	-494.9
				C:SPS:MARCY_AT1_AT2													
				Open 147827	MARCY765	765	147833	MARCY T1	345	1				-0.02517	0.02491	888.4	958.0
				Open 147827	MARCY765	765	147833	MARCY T1	345	2				-0.02517	0.02167	774.5	835.0
3738	2816.0	5518.1	L:	131122	WTHRS230	230	134750	DAIRY230	230	1	374.9	540.0	0.05864		0.05073	321.6	464.5
				C: 95593 CHERYFLT		345	200769	HOMER CY	345	1	1451						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.10201	-0.07753	-521.8	-740.1
3740	2820.7	5520.9	L:	126294	PLTVLLEY	345	137451	LEEDS 3	345	2	-945.5	-1331.0	-0.13666				
				Base Case													
3742	2829.0	5525.8	L:	95976	STONYCRK	230	131122	WTHRS230	230	1	367.3	540.0	0.06103		0.05064	311.0	454.2
				C:SER:HCWC/NWES													
				Open 130836	N.WAV115	115	200676	E.SAYRE	115	1				-0.02617	-0.02203	56.7	-5.6
				Open 95593	CHERYFLT	345	135249	ARMENMTN	345	1	NA						
				Open 130757	WATRC345	345	135249	ARMENMTN	345	1				-0.10276	-0.09693	-566.4	-840.6
				Open 135248	ARMENMTN	345	135249	ARMENMTN	345	1	NA						
				Open 95593	CHERYFLT	345	200769	HOMER CY	345	1				0.00752	-0.01940	-44.6	-99.5

L/O Leeds-PV #3

FtoG

			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA												
3743	2829.5	5526.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	368.7	540.0	0.06053	0.05064	311.0	454.2							
			C:130757 WATRC345	345	135249 ARMENMTN	345	1													
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1													
3744	2830.1	5526.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-503.9	-707.0	-0.07175	-0.10201	-0.09693	-566.4	-840.7						
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1													
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1													
3745	2846.6	5536.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	363.7	540.0	0.06192	0.23163	-0.14265	-406.3	-810.0						
			C:147834 NIAG 345	345	149000 ROCH 345	345	1													
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1													
3747	2851.5	5539.0	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	367.5	540.0	0.06050	0.06626	0.17029	796.4	1281.2						
			C:SER:HC-WC_30&w-F_171																	
			Open 135277 FALCONER	115	200579 WARREN	115	1													
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA												
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1													
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA												
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1													
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA												
3748	2855.8	5541.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1223.1	-1725.0	-0.17574	-0.13666	-0.17029	-945.5	-1335.8						
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1													
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1													
3751	2870.3	5550.1	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-370.8	-540.0	-0.05894	-0.30048	-0.13005	-923.9	-1295.3						
			C:HQ-NY-765-New																	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA												
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA												
			Open 147827 MARCY765	765	147833 MARCY T1	345	1													
			Open 147827 MARCY765	765	147833 MARCY T1	345	2													
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA												
			Open 147838 MASS230B	230	147839 MOSES E	230	1													
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA												
			Open 147837 MASS230A	230	147839 MOSES E	230	1													
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA												
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA												
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA												
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0														
			Set bus 181319 CHAT G3	120	load to	357.0														
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0														
			Set bus 181419 CHAT G4	120	load to	357.0														
3753	2907.0	5571.8	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1011.4	-1703.0	-0.23792	-0.22166	-0.11185	-450.3	-775.4						
			C:BUS:N.S._77																	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1													
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1													
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA												
			Open 137200 EDIC	345	137452 N.SCOT77	345	1													
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1													
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1													
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2													
3754	2943.8	5593.5	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1016.2	-1703.0	-0.23331	-0.22166	-0.11185	-450.3	-775.4						
			C:125000 HURLEY 3	345	137451 LEEDS 3	345	1													
			Open 125000 HURLEY 3	345	137451 LEEDS 3	345	1													
3755	2951.8	5598.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	365.7	540.0	0.05906	0.08849	-0.13162	-804.1	-1191.5						
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1													
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1													
3756	2955.2	5600.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	370.5	540.0	0.05737	0.10201	0.08257	536.2	779.9						
			C:130754 KINTI345	345	149000 ROCH 345	345	1													
			Open 130754 KINTI345	345	149000 ROCH 345	345	1													
3757	2963.0	5604.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	796.4	1301.0	0.17029	0.05500	0.12059	887.9	1244.2						
			Base Case																	

# UPNYSENY

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, JAN 19 2012 12:01  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3759  
 First violation - 819.7 MW.

Study transfer. From ON\_F\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3759 violations

Interface-1 Interface 11 UPNY SENY-OP Init.Flow= 5851.16 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo
			C: Contingency description	__Ncon	Flow Rating	LODF	Init	Fina
1	819.7	6670.9	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	334.1	383.0	0.05966	0.04892	267.8 307
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11472	-0.09358	-577.8 -654
2	830.5	6681.7	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	333.5	383.0	0.05962	0.04892	267.8 308
			C:SER:HCWC/NWES 1710					
			Open 130836 N.WAV115 115 200676 E.SAYRE 115 1			-0.00556	-0.02127	51.8 34
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11488	-0.09358	-577.8 -655
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00931	-0.01872	-44.3 -59
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
3	851.9	6703.1	L: 130761 AVOCA230 230 131154 STONY RIDGE 230 1	332.2	383.0	0.05966	0.04892	267.8 309
			C:SER:HC-WC_30&W-F_171 1704					
			Open 135277 FALCONER 115 200579 WARREN 115 1			0.04708	0.00507	-23.5 -19
			Open 95593 CHERYFLT 345 135249 ARMENMTN 345 1	NA				
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			-0.11405	-0.09358	-577.8 -657
			Open 135248 ARMENMTN 345 135249 ARMENMTN 345 1	NA				
			Open 95593 CHERYFLT 345 200769 HOMER CY 345 1			0.00954	-0.01872	-44.3 -60
			Open 95593 CHERYFLT 345 95594 CHERYWND 34.5 1	NA				
4	862.0	6713.2	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-331.6	-383.0	-0.05966	-0.04892	-265.3 -307
			C:130757 WATRC345 345 135249 ARMENMTN 345 1 280					
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1			0.11472	-0.09358	-577.8 -658
5	872.8	6724.0	L: 130763 HILSD230 230 131154 STONY RIDGE 230 1	-331.0	-383.0	-0.05962	-0.04892	-265.3 -308



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			C:130755 OAKDL345	345	131128 LAPEER	345	1	276											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.06204	-0.07232	-544.2	-657					
17	1583.4	7434.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		297.3	383.0	0.05414		0.04892	267.8	345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					-0.28686	-0.01819	-102.7	-131				
18	1600.3	7451.4	L: 147827 MARCY765	765	147833 MARCY T1	345	1		1584.8	1654.0	0.04322		0.02424	888.1	926				
			C:147827 MARCY765	765	147833 MARCY T1	345	2	1313											
			Open 147827 MARCY765	765	147833 MARCY T1	345	2					0.90002	0.02108	774.2	807				
19	1615.5	7466.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-299.5	-383.0	-0.05167		-0.04892	-265.3	-344				
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1					0.05471	-0.05023	-625.7	-706				
20	1630.0	7481.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-294.7	-383.0	-0.05414		-0.04892	-265.3	-345				
			C:130774 BATH 115	115	131347 HOWARD	115	1	298											
			Open 130774 BATH 115	115	131347 HOWARD	115	1					0.28686	-0.01819	-102.7	-132				
21	1641.5	7492.7	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		294.5	383.0	0.05388		0.04892	267.8	348				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					0.28686	0.01729	93.2	121				
22	1645.1	7496.2	L: 130750 COOPC345	345	130753 FRASR345	345	1		-1256.9	-1703.0	-0.27120		-0.21802	-962.0	-1320				
			C:130750 COOPC345	345	147833 MARCY T1	345	1	262											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.42262	-0.12584	-697.7	-904				
23	1655.4	7506.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-337.7	-430.0	-0.05578								
			Base Case																
25	1688.4	7539.5	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-292.0	-383.0	-0.05388		-0.04892	-265.3	-347				
			C:131342 BENET115	115	131347 HOWARD	115	1	471											
			Open 131342 BENET115	115	131347 HOWARD	115	1					-0.28686	0.01729	93.2	122				
28	1720.1	7571.3	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		1295.7	1685.0	0.22631		0.16418	814.4	1096				
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1					0.53437	0.11627	900.7	1100				
35	1842.0	7693.1	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		1273.2	1793.0	0.28217		0.17839	828.6	1157				
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	71											
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2					-0.62718	-0.16547	-709.0	-1013				
38	1894.0	7745.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-577.8	-755.0	-0.09358								
			Base Case																
74	2043.5	7894.6	L: 130757 WATRC345	345	130768 WATRC230	230	1		490.1	600.0	0.05380		-0.06208	234.6	107				
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.74443	-0.15567	-343.1	-661				
82	2082.7	7933.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1219.5	-1793.0	-0.27538		-0.16547	-709.0	-1053				
			C:130750 COOPC345	345	146754 MDTN TAP	345	1	261											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.61610	0.17839	828.6	1200				
96	2124.1	7975.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		326.0	430.0	0.04899								
			Base Case																
110	2160.6	8011.8	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1200.9	-1793.0	-0.27402		-0.16547	-709.0	-1066				
			C:SER:CMT34&MTR34					1695											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.56733	0.17839	828.6	1214				
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					0.05249	-0.13999	-416.4	-718				
130	2195.0	8046.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-396.6	-540.0	-0.06532		-0.05578	-337.7	-460				



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				C:130757 WATRC345	345	135249 ARMENMTN	345	1	280										
				Open 130757 WATRC345		345 135249 ARMENMTN		345	1			0.10202	-0.09358	-577.8	-783				
134	2197.8	8049.0	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-395.4	-540.0	-0.06581		-0.05578	-337.7	-460			
				C:SER:HCWC/NWES					1710										
				Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02617	-0.02127	51.8	5				
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10277	-0.09358	-577.8	-783				
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00751	-0.01872	-44.3	-85				
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
137	2203.8	8055.0	L:	130750 COOPC345	345	147833 MARCY T1	345	1		-944.4	-1345.0	-0.18176		-0.12584	-697.7	-975			
				C:130750 COOPC345	345	130753 FRASR345	345	1	258										
				Open 130750 COOPC345	345	130753 FRASR345	345	1				0.25651	-0.21802	-962.0	-1442				
144	2216.6	8067.7	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-395.3	-540.0	-0.06530		-0.05578	-337.7	-461			
				C:SER:HC-WC_30&W-F_171					1704										
				Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03207	0.00507	-23.5	-12				
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				NA							
				Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10157	-0.09358	-577.8	-785				
				Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1				NA							
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00768	-0.01872	-44.3	-85				
				Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1				NA							
150	2225.4	8076.5	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-391.7	-540.0	-0.06666		-0.05578	-337.7	-461			
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06629	0.16418	814.4	1179				
188	2265.6	8116.8	L:	130754 KINTI345	345	149000 ROCH 345	345	1		1258.3	1685.0	0.18836		0.11627	900.7	1164			
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1320										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.43906	0.16418	814.4	1186				
207	2291.3	8142.5	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-393.6	-540.0	-0.06391		-0.05578	-337.7	-465			
				C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35										
				Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10202	0.07973	547.8	730				
239	2304.9	8156.1	L:	130750 COOPC345	345	130753 FRASR345	345	1		-1038.3	-1703.0	-0.28840		-0.21802	-962.0	-1464			
				C:130753 FRASR345	345	147831 GILB 345	345	1	270										
				Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.37431	0.18804	203.7	637				
300	2332.4	8183.5	L:	130764 MEYER230	230	134750 DAIRY230	230	1		-392.1	-540.0	-0.06341		-0.05578	-337.7	-467			
				C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451										
				Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10202	-0.07486	-533.4	-708				
403	2345.9	8197.1	L:	95976 STONYCRK	230	131122 WTHRS230	230	1		315.3	430.0	0.04889							
				Base Case															
460	2349.1	8200.3	L:	131018 LOUNS115	115	131850 CNYOG115	115	1		44.4	143.0	0.04196		0.02752	12.6	77			
				C:130755 OAKDL345	345	130757 WATRC345	345	1	273										
				Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09273	-0.15567	-343.1	-708				
1163	2354.5	8205.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1		267.8	383.0	0.04892							
				Base Case															
1989	2389.0	8240.2	L:	137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1127.8	-1724.0	-0.24956		-0.13146	-635.5	-949			
				C:BUS:N.S._77					1717										
				Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.60280	-0.10675	-459.8	-714				

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			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.39243	-0.01170	256.4	228		
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.32358	0.16607	812.1	1208		
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.25034	-0.01830	23.4	-20		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			-0.00000	-0.13157	-636.6	-950		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	2			0.18833	0.00000	-250.0	-250		
2098	2399.9	8251.1	L: 130848 S.OWE115	115	131850 CNYOG115	115	1			-42.3	-143.0	-0.04196	-0.02752	-10.5	-76
			C:130755 OAKDL345	345	130757 WATRC345	345	1	273							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.09273	-0.15567	-343.1	-716		
2200	2403.2	8254.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1			334.6	478.0	0.05966	0.04892	268.3	385
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	280							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11472	-0.09358	-577.8	-802		
2674	2406.0	8257.2	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1			-265.3	-383.0	-0.04892			
			Base Case												
3475	2415.1	8266.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1			334.0	478.0	0.05962	0.04892	268.3	386
			C:SER:HCWC/NWES					1710							
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.00556	-0.02127	51.8	0		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11488	-0.09358	-577.8	-803		
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00931	-0.01872	-44.3	-89		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
3557	2435.5	8286.6	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1			332.7	478.0	0.05966	0.04892	268.3	387
			C:SER:HC-WC_30&W-F_171					1704							
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.04708	0.00507	-23.5	-11		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11405	-0.09358	-577.8	-805		
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00954	-0.01872	-44.3	-89		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
3586	2457.1	8308.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1			-387.2	-540.0	-0.06217	-0.05578	-337.7	-474
			C:130754 KINTI345	345	149000 ROCH 345	345	1	272							
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.05503	0.11627	900.7	1186		
3621	2489.2	8340.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1			-1206.4	-1792.0	-0.23527	-0.17838	-910.7	-1354
			C:SIN:160					1773							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34254	0.16607	812.1	1225		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19631	0.00000	89.2	89		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00028	-0.00457	40.2	28		
3622	2489.2	8340.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1			-1206.4	-1792.0	-0.23527	-0.17838	-910.7	-1354
			C:SIN:150					1772							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34254	0.16607	812.1	1225		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19634	0.00000	89.2	89		
			Open 137235 PORTER 1	115	147905 ILION	115	1			-0.00018	-0.00517	45.4	32		
3641	2528.2	8379.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1			331.2	478.0	0.05807	0.04892	268.3	392
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.11472	0.07973	547.8	749		

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3642	2533.8	8385.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1097.2	-1703.0	-0.23908	-0.21802	-962.0	-1514
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1089					
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.15019	-0.14024	-900.2	-1255
3653	2581.4	8432.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	329.5	478.0	0.05751	0.04892	268.3	394
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1451					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.11472	-0.07486	-533.4	-726
3654	2584.7	8435.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1134.4	1724.0	0.22811	0.16607	812.1	1241
			C:BUS:N.S._99					1718					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.14465	-0.04780	-460.0	-583
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.35360	-0.17838	-910.7	-1371
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			-0.08229	-0.01204	271.9	240
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.06802	-0.13146	-635.5	-975
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.19897	0.00000	3.5	3
3657	2588.4	8439.5	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-682.0	-927.0	-0.09466	-0.09358	-577.8	-820
			C:HQ-NY-765-New					1880					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02384	0.02424	888.1	950
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02384	0.02108	774.2	828
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.02266	-150.7	-209
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05353	0.00000	-153.0	-153
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
3658	2595.1	8446.2	L: Interface 73 MarcySouths					1659.7	2552.0	0.34386			
			Base Case										
3660	2596.2	8447.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1259.1	-1725.0	-0.17946	-0.13674	-955.5	-1310
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	185					
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.30667	-0.13931	-989.9	-1351
3661	2598.0	8449.2	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1371.4	-1912.0	-0.20809	-0.14024	-900.2	-1264
			C:BUS:N.S._99					1718					
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.64506	-0.04780	-460.0	-584
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.17558	-0.17838	-910.7	-1374
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.03798	-0.01204	271.9	240
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.03989	-0.13146	-635.5	-977
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.12343	0.00000	3.5	3
3662	2598.7	8449.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	547.8	755.0	0.07973			
			Base Case										
3663	2600.0	8451.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1183.3	-1792.0	-0.23413	-0.17838	-910.7	-1374
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1026					

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			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.33568	0.16607	812.1	1243
3667	2613.2	8464.4	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-197.6	-317.0	-0.04570		-0.02064	-123.1	-177
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1			72				
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1				0.17897	-0.13999	-416.4	-782
3683	2649.3	8500.4	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	383.6	540.0	0.05902		0.04899	326.0	455
			C:SER:HCWC/NWES								1710				
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.02617	-0.02127	51.8	-4
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10277	-0.09358	-577.8	-825
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00751	-0.01872	-44.3	-93
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA			
3684	2649.8	8501.0	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	384.9	540.0	0.05853		0.04899	326.0	455
			C:130757 WATRC345	345	135249	ARMENMTN	345	1			280				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10202	-0.09358	-577.8	-825
3693	2673.5	8524.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	379.9	540.0	0.05987		0.04899	326.0	456
			C:147834 NIAG 345	345	149000	ROCH 345	345	1			1320				
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.06629	0.16418	814.4	1253
3694	2674.1	8525.3	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	383.5	540.0	0.05851		0.04899	326.0	456
			C:SER:HC-WC_30&W-F_171								1704				
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.03207	0.00507	-23.5	-9
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10157	-0.09358	-577.8	-828
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00768	-0.01872	-44.3	-94
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA			
3696	2676.5	8527.6	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1124.5	1724.0	0.22397		0.16607	812.1	1256
			C:SIN:180								1775				
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.32462	-0.17838	-910.7	-1388
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.18808	0.00000	89.2	89
			Open 137235 PORTER 1	115	147905	ILION	115	1				0.00019	-0.00517	45.4	31
3697	2676.5	8527.6	L: 137200 EDIC	345	137452	N.SCOT77	345	1	1124.5	1724.0	0.22397		0.16607	812.1	1256
			C:SIN:170								1774				
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				-0.32462	-0.17838	-910.7	-1388
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				0.18805	0.00000	89.2	89
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				0.00028	-0.00457	40.2	27
3701	2689.7	8540.8	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1072.2	-1703.0	-0.23453		-0.21802	-962.0	-1548
			C:BUS:N.S._99								1718				
			Open 137453 N.SCOT99	345	147831	GILB 345	345	1				0.12288	-0.04780	-460.0	-588
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.05422	-0.17838	-910.7	-1390
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1				0.00125	-0.01204	271.9	239
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.00724	-0.13146	-635.5	-989
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1				-0.00492	0.00000	3.5	3
3707	2724.8	8576.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-394.5	-540.0	-0.05338		-0.05578	-337.7	-489
			C:BUS:WATERCURE_345								1735				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.05135	-0.09358	-577.8	-832

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			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11597	-0.06208	234.6	65
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04449	0.00000	0.0	0
3712	2746.0	8597.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-955.5	-1331.0	-0.13674	
			Base Case										
3717	2768.9	8620.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1			381.8	540.0	0.05712	0.04899
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		35				326.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10202	0.07973	547.8	768
3721	2781.0	8632.2	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2			-1236.0	-1725.0	-0.17584	-0.13674
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1		187				-955.5
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1			0.30048	-0.13013	-933.4	-1295
3724	2793.0	8644.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1			1101.7	1724.0	0.22279	0.16607
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1		1094				812.1
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.31801	-0.17838	-910.7	-1408
3727	2809.7	8660.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1			-508.0	-707.0	-0.07082	-0.03840
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1		72				-411.6
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.23162	-0.13999	-416.4	-809
3729	2819.0	8670.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1			380.4	540.0	0.05662	0.04899
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1		1451				326.0
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10202	-0.07486	-533.4	-744
3731	2821.9	8673.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1			-379.4	-540.0	-0.05691	-0.05578
			C:SPS:MARCY_AT1_AT2						1699				-337.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02510	0.02424	888.1	956
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02510	0.02108	774.2	833
3732	2834.1	8685.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1			373.0	540.0	0.05893	0.04889
			C:SER:HCWC/NWES						1710				315.3
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02617	-0.02127	51.8	-8
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10277	-0.09358	-577.8	-843
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1			NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00751	-0.01872	-44.3	-97
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1			NA			
3735	2836.2	8687.4	L: 95976 STONYCRK	230	131122 WTHRS230	230	1			374.2	540.0	0.05844	0.04889
			C:130757 WATRC345	345	135249 ARMENMTN	345	1		280				315.3
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10202	-0.09358	-577.8	-843
3740	2855.8	8706.9	L: 95976 STONYCRK	230	131122 WTHRS230	230	1			369.3	540.0	0.05978	0.04889
			C:147834 NIAG 345	345	149000 ROCH 345	345	1		1320				315.3
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.06629	0.16418	814.4	1283
3741	2860.6	8711.8	L: 95976 STONYCRK	230	131122 WTHRS230	230	1			372.9	540.0	0.05842	0.04889
			C:SER:HC-WC_30&W-F_171						1704				315.3
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.03207	0.00507	-23.5	-9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			NA			
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10157	-0.09358	-577.8	-845
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1			NA			
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00768	-0.01872	-44.3	-97
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1			NA			
3745	2880.9	8732.1	L: 130750 COOPC345	345	130753 FRASR345	345	1			-1029.5	-1703.0	-0.23380	-0.21802
													-962.0
													-1590



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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, JAN 19 2012 12:01  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 5589  
 First violation - -1132.6 MW.

Study transfer. From G\_EXPORT To HI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 5589 violations

Interface-1 Interface 12 UPNY-CONED-O Init.Flow= 5500.07 TDF= 0.9671

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	LODF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating				Init Final
1	-1132.6	4404.7	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1 C:125020 DANSKAMA 115 125021 DC CBLTP 115 1 Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1	284.0	240.0	0.03882		0.01978	144.3 121.9
2	-1128.3	4408.9	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1 C:125021 DC CBLTP 115 125041 N.CHELSE 115 1 Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1	283.8	240.0	0.03882		0.01978	144.3 122.0
3	533.6	6016.1	L: 125002 ROSETON 345 125190 ROSE GN1 24.0 1 Base Case	-414.4	-614.0	-0.37405		0.92906	0.02050 150.3 127.1
4	564.1	6045.6	L: 125002 ROSETON 345 125192 ROSE GN2 24.0 2 Base Case	-416.1	-614.0	-0.35076			
5	801.9	6275.6	L: 125021 DC CBLTP 115 125041 N.CHELSE 115 1 C:125015 AC CBLTP 115 125020 DANSKAMA 115 1 Open 125015 AC CBLTP 115 125020 DANSKAMA 115 1	284.8	316.0	0.03892		0.02050	150.1 166.6
6	804.5	6278.1	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:SEAB&OMS 1677 Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
7	804.5	6278.1	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:SEABROOK 1675 Remove unit 1 from bus 102869 SBRK G1 25.0 1318.0 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
8	804.6	6278.2	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:MILLST 3 1674 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
9	804.6	6278.2	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:MLS3&OMS 1676 Open 100508 SANDB115 115 100509 SB RCTOR 115 2 Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
10	804.8	6278.4	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:SALEM 1669 Remove unit 1 from bus 36 SALEM-G1 22.0 1107.4 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
11	804.9	6278.4	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:PEACHBTM 1670 Remove unit 1 from bus 34 PCHBTM 2 22.0 1051.0 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
12	804.9	6278.5	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:IND PT 3 1657 Remove unit 1 from bus 147798 IP#3 GEN 22.0 1040.4 MW dispatch	149.9	300.0	0.18654		0.18654	149.6 299.7
13	804.9	6278.5	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:IND PT 2 1656 Remove unit 2 from bus 126651 IND PT 2 22.0 1021.8 MW dispatch	149.8	300.0	0.18654		0.18654	149.6 299.8
14	805.1	6278.7	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:FITZPATR 1661 Open 136155 SCRIBA 345 147830 JA FITZP 345 1 Open 137200 EDIC 345 147830 JA FITZP 345 1 Remove unit 1 from bus 147797 JAFITZ1G 24.0 851.5 MW dispatch	149.8	300.0	0.18654		0.18654	149.6 299.8
15	805.1	6278.7	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01 C:GEN:BRUCE 6 1666 Remove unit 1 from bus 159617 BRUCEBG5 24.0 840.0 MW dispatch	149.8	300.0	0.18654		0.18654	149.6 299.8
162	806.2	6279.8	L: 120701 STARS-00701 13.8 125001 ROCK TAV 345 01	149.6	300.0	0.18654			

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Base Case													
1864	808.2	6281.7	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	284.5	316.0	0.03892	0.02050	150.1	166.7
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1						
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1			0.93138	0.01978	144.3	160.3
1865	1565.3	7013.8	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-284.2	-345.0	-0.03882	-0.01978	-144.6	-175.5
			C:125020 DANSKAMA	115	125021 DC CBLTP	115	1						
			Open 125020 DANSKAMA	115	125021 DC CBLTP	115	1			-0.92906	0.02050	150.3	182.4
1866	1569.7	7018.1	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-284.1	-345.0	-0.03882	-0.01978	-144.6	-175.6
			C:125021 DC CBLTP	115	125041 N.CHELSE	115	1						
			Open 125021 DC CBLTP	115	125041 N.CHELSE	115	1			-0.92906	0.02050	150.1	182.3
1867	1670.8	7115.9	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	285.0	350.0	0.03892	0.02050	150.3	184.6
			C:125015 AC CBLTP	115	125020 DANSKAMA	115	1						
			Open 125015 AC CBLTP	115	125020 DANSKAMA	115	1			-0.93138	-0.01978	-144.6	-177.6
1868	1677.1	7122.0	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	284.7	350.0	0.03892	0.02050	150.3	184.7
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1						
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1			0.93138	0.01978	144.3	177.5
1869	1703.6	7147.6	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-104.0	-0.03372			
Base Case													
1870	1818.8	7259.0	L: 125001 ROCK TAV	345	125002 ROSETON	345	1	-950.7	-1870.0	-0.50544	-0.22309	-271.5	-677.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.63819	0.44241	1064.3	1869.0
1871	1818.8	7259.0	L: 125001 ROCK TAV	345	125002 ROSETON	345	1	-950.7	-1870.0	-0.50544	-0.22309	-271.5	-677.2
			C:SIN:430										
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.63819	0.44241	1064.3	1869.0
1872	1869.3	7307.8	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-420.8	-1120.0	-0.37405	-0.37405	-414.4	-1113.6
			C:SIN:250										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch					
1873	1872.4	7310.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8
			C:SIN:120										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	-0.16251	851.6	547.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	-0.16251	851.6	547.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	0.47310	40.5	926.3
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW			dispatch					
1874	1872.4	7310.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8
			C:SIN:130										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	-0.16251	851.6	547.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	-0.16251	851.6	547.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	0.47310	40.5	926.3
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW			dispatch					
1875	1883.8	7321.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0
			C:GEN:SEABROOK										
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
1876	1883.8	7321.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0
			C:GEN:SEAB&OMS										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW			dispatch					
1877	1883.9	7322.0	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1
			C:GEN:MILLST 3										
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch					
1878	1883.9	7322.0	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1
			C:GEN:MLS3&OMS										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch					
1879	1884.2	7322.3	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:GEN:SALEM										
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW			dispatch					
1880	1884.3	7322.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:GEN:PEACHBTM										
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW			dispatch					
1881	1884.3	7322.4	*L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:GEN:IND PT 3										
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW			dispatch					
3729	1968.0	7403.3	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1064.3	1935.0	0.44241			
Base Case													

Not a valid limitation  
Contingent element is part of UPNY-ConEd i



UPNYConEd

3730	2003.9	7438.1	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.1	-1119.0
			C:GEN:SEABROOK					1675					
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0	MW	dispatch				
3731	2003.9	7438.1	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.1	-1119.0
			C:GEN:SEAB&OMS					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1			25.0	1318.0	MW	dispatch				
3732	2004.0	7438.1	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.1	-1119.1
			C:GEN:MILLST 3					1674					
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0	MW	dispatch				
3733	2004.0	7438.1	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.1	-1119.1
			C:GEN:MLS3&OMS					1676					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3			24.0	1276.0	MW	dispatch				
3734	2004.3	7438.5	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-417.0	-1120.0	-0.35076	-0.35076	-416.1	-1119.2
			C:GEN:SALEM					1669					
			Remove unit 1 from bus 36 SALEM-G1			22.0	1107.4	MW	dispatch				
3735	2004.5	7438.6	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.1	-1119.2
			C:GEN:PEACHBTM					1670					
			Remove unit 1 from bus 34 PCHBTM 2			22.0	1051.0	MW	dispatch				
3736	2004.5	7438.6	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.1	-1119.2
			C:GEN:IND PT 3					1657					
			Remove unit 1 from bus 147798 IP#3 GEN			22.0	1040.4	MW	dispatch				
3737	2004.5	7438.6	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.1	-1119.3
			C:GEN:IND PT 2					1656					
			Remove unit 2 from bus 126651 IND PT 2			22.0	1021.8	MW	dispatch				
3738	2004.9	7439.0	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.8	-1120.0	-0.35076	-0.35076	-416.1	-1119.4
			C:GEN:FITZPATR					1661					
			Open 136155 SCRIBA	345	147830 JA FITZF	345	1			0.00000	-0.00006	-222.0	-222.2
			Open 137200 EDIC	345	147830 JA FITZF	345	1			0.00000	0.00000	36.9	36.9
			Remove unit 1 from bus 147797 JAFITZ1G			24.0	851.5	MW	dispatch				
3739	2004.9	7439.0	*L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.8	-1120.0	-0.35076	-0.35076	-416.1	-1119.4
			C:GEN:BRUCE 6					1666					
			Remove unit 1 from bus 159617 BRUCEBG5			24.0	840.0	MW	dispatch				
5587	2147.1	7576.6	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	172.4	240.0	0.03146	0.01978	144.3	186.8
			C:SIN:430					1785					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.02641	0.44241	1064.3	2014.3
5588	2147.1	7576.6	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	172.4	240.0	0.03146	0.01978	144.3	186.8
			C:125002 ROSETON	345	126281 FISHKILL	345	1	73					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.02641	0.44241	1064.3	2014.3
5589	2969.1	8371.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1285.0	3137.0	0.62376	0.44241	1064.3	2377.9
			C:125001 ROCK TAV	345	125002 ROSETON	345	1	66					
			Open 125001 ROCK TAV	345	125002 ROSETON	345	1			-0.81287	-0.22309	-271.5	-933.9

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- TUE, JAN 31 2012 12:11  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev6-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 5000.0 MW. Total violations: 11211  
 First violation - -1036.7 MW.

Study transfer. From GH\_EXPORT To I\_IMPORT . Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 11211 violations

Interface-1 Interface 13 MILW-SOUTH-C Init.Flow= 9607.69 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	-1036.7	8571.0	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1	283.9	240.0	0.04233	0.02157	144.3 121.9
			C:125020 DANSKAMA 115 125021 DC CBLTP 115 1 88					
			Open 125020 DANSKAMA 115 125021 DC CBLTP 115 1			0.92906	0.02235	150.3 127.1
2	-1032.5	8575.1	L: 125015 AC CBLTP 115 125041 N.CHELSE 115 1	283.7	240.0	0.04233	0.02157	144.3 122.0
			C:125021 DC CBLTP 115 125041 N.CHELSE 115 1 92					
			Open 125021 DC CBLTP 115 125041 N.CHELSE 115 1			0.92906	0.02235	150.1 127.0
3	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:136680 FEN-WIND 115 147917 OM-FENNR 115 1 940					
			Open 136680 FEN-WIND 115 147917 OM-FENNR 115 1			0.00000	-0.00008	8.6 8.5
4	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:135433 AMHST-38 115 135477 S140-38 115 1 625					
			Open 135433 AMHST-38 115 135477 S140-38 115 1			0.00000	-0.00001	42.8 42.8
5	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:137891 MARSH115 115 137905 ST JOHNS 115 1 1254					
			Open 137891 MARSH115 115 137905 ST JOHNS 115 1			0.00000	-0.00007	-36.0 -36.1
6	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:136750 ALCOA-NM 115 147847 ALCOA N 115 1 943					
			Open 136750 ALCOA-NM 115 147847 ALCOA N 115 1			0.00000	0.00001	8.6 8.6
7	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:BUS:E13TH_48_345 1733					
			Open 126275 E13ST 48 345 126277 FARRAGUT 345 1			0.00000	0.00001	27.6 27.6
			Open 126275 E13ST 48 345 126317 COLLECTOR 345 1			0.00000	0.00000	-48.4 -48.4
			Open 126275 E13ST 48 345 147829 POLETTI 345 1			0.00000	0.00000	-301.1 -301.1
			Open 126275 E13ST 48 345 126499 T11MPT 138 11			0.00000	-0.00001	152.7 152.6
			Open 126275 E13ST 48 345 126867 TX10 T 138 10			0.00000	0.00000	0.4 0.4
8	355.6	9963.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01	44.8	-300.0	-0.96970	-0.96970	44.8 -300.0
			C:136751 ALLENS F 115 136764 COLTON 944					

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			Open 136751 ALLENS F	115	136764 COLTON	115	1		0.00000	-0.00000	-16.8	-16.8	
9	355.6	9963.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	44.8	-300.0	-0.96970	-0.96970	44.8	-300.0
			C:135433 AMHST-38	115	135451 PARADISE	115	1	624					
			Open 135433 AMHST-38	115	135451 PARADISE	115	1		0.00000	0.00001	-43.0	-43.0	
10	355.6	9963.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	44.8	-300.0	-0.96970	-0.96970	44.8	-300.0
			C:136750 ALCOA-NM	115	136760 BRADY	115	1	941					
			Open 136750 ALCOA-NM	115	136760 BRADY	115	1		0.00000	-0.00000	31.0	31.0	
11	355.6	9963.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	44.8	-300.0	-0.96970	-0.96970	44.8	-300.0
			C:137892 MECO 115	115	137909 TAP T79	115	1	1255					
			Open 137892 MECO 115	115	137909 TAP T79	115	1		0.00000	-0.00012	-14.6	-14.6	
12	355.6	9963.3	*L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	44.8	-300.0	-0.96970	-0.96970	44.8	-300.0
			C: 101 R TAV SW	345	125001 ROCK TAV	345	1	1					
			Open 101 R TAV SW	345	125001 ROCK TAV	345	1		0.00000	0.00000	-0.0	-0.0	
1219	355.6	9963.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	44.8	-300.0	-0.96970			
			Base Case										
1859	599.5	10207.2	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-414.4	-614.0	-0.33292			
			Base Case										
1860	633.7	10241.4	L: 125002 ROSETON	345	125192 ROSE GN2	24.0	2	-416.2	-614.0	-0.31219			
			Base Case										
1861	737.6	10345.3	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	284.7	316.0	0.04244	0.02235	150.1	166.6
			C:125015 AC CBLTP	115	125020 DANSKAMA	115	1	78					
			Open 125015 AC CBLTP	115	125020 DANSKAMA	115	1		-0.93138	-0.02157	-144.5	-160.5	
1862	743.4	10351.1	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	284.5	316.0	0.04244	0.02235	150.1	166.7
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1	79					
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1		0.93138	0.02157	144.3	160.3	
1863	903.9	10511.6	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SEABROOK					1675					
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
1864	903.9	10511.6	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SEAB&OMS					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
1865	904.0	10511.7	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:MILLST 3					1674					
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
1866	904.0	10511.7	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:MLS3&OMS					1676					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
1867	904.2	10511.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:SALEM					1669					
			Remove unit 1 from bus	36	SALEM-G1	22.0	1107.4	MW	dispatch				
1868	904.3	10512.0	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7
			C:GEN:IND PT 3-New					1877					
			Open 147798 IP#3 GEN	22.0	147832 IP3	345	345	1	0.00000	0.02785	506.2	531.3	
			Open 147798 IP#3 GEN	22.0	147832 IP3	345	345	2	-0.00025	-0.05540	-1009.3	-1059.4	
1869	904.3	10512.0	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:PEACHBTM					1670					
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1051.0	MW	dispatch				

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1870	904.3	10512.0	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:IND PT 3					1657						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch							
1871	904.3	10512.0	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7
			C:GEN:IND PT 2-New					1876						
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1	0.00000	-0.02729	-493.4	-518.0		
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2	-0.00025	-0.05457	-986.7	-1036.1		
1872	904.3	10512.0	*L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7
			C:GEN:IND PT 2					1656						
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8	MW	dispatch							
1914	905.9	10513.6	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.6	300.0	0.16603			
			Base Case											
3721	1437.6	11045.3	L: 125015 AC CBLTP	115	125020	DANSKAMA	115	1	-284.1	-345.0	-0.04233	-0.02157	-144.5	-175.5
			C:125020 DANSKAMA	115	125021	DC CBLTP	115	1	88					
			Open 125020 DANSKAMA	115	125021	DC CBLTP	115	1	-0.92906	0.02235	150.3	182.4		
3722	1441.7	11049.4	L: 125015 AC CBLTP	115	125020	DANSKAMA	115	1	-284.0	-345.0	-0.04233	-0.02157	-144.5	-175.6
			C:125021 DC CBLTP	115	125041	N.CHELSE	115	1	92					
			Open 125021 DC CBLTP	115	125041	N.CHELSE	115	1	-0.92906	0.02235	150.1	182.3		
3723	1534.4	11142.1	L: 125020 DANSKAMA	115	125021	DC CBLTP	115	1	284.9	350.0	0.04244	0.02235	150.3	184.6
			C:125015 AC CBLTP	115	125020	DANSKAMA	115	1	78					
			Open 125015 AC CBLTP	115	125020	DANSKAMA	115	1	-0.93138	-0.02157	-144.5	-177.6		
3724	1540.2	11147.9	L: 125020 DANSKAMA	115	125021	DC CBLTP	115	1	284.6	350.0	0.04244	0.02235	150.3	184.7
			C:125015 AC CBLTP	115	125041	N.CHELSE	115	1	79					
			Open 125015 AC CBLTP	115	125041	N.CHELSE	115	1	0.93138	0.02157	144.3	177.5		
3725	1644.5	11252.2	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1063.2	1935.0	0.53012			
			Base Case											
3726	1902.0	11509.7	L: 125015 AC CBLTP	115	125041	N.CHELSE	115	1	172.4	240.0	0.03556	0.02157	144.3	185.3
			C:SIN:430					1785						
			Open 125002 ROSETON	345	126281	FISHKILL	345	1	0.02641	0.53012	1063.2	2071.5		
3727	1902.0	11509.7	L: 125015 AC CBLTP	115	125041	N.CHELSE	115	1	172.4	240.0	0.03556	0.02157	144.3	185.3
			C:125002 ROSETON	345	126281	FISHKILL	345	1	73					
			Open 125002 ROSETON	345	126281	FISHKILL	345	1	0.02641	0.53012	1063.2	2071.5		
3728	1914.1	11521.8	L: 125020 DANSKAMA	115	125195	DANSK G2	13.8	2	-46.5	-104.0	-0.03001			
			Base Case											
3729	2100.2	11707.9	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-420.8	-1120.0	-0.33292	-0.33292	-414.4	-1113.6
			C:SIN:250					1780						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch							
3730	2103.8	11711.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:130					1771						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1	0.00000	0.09481	850.6	1050.1		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2	0.00000	0.09481	850.6	1050.1		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1	0.00000	-0.05540	40.5	-76.1		
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA					
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch							
3731	2103.8	11711.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:120					1770						

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00000	0.09481	850.6	1050.1
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00000	0.09481	850.6	1050.1
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		0.00000	-0.05540	40.5	-76.1
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch			
3732	2116.5	11724.2	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.4	-1120.0	-0.33292	-0.33292 -414.4 -1119.0
			C:GEN:SEABROOK						1675				
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch			
3733	2116.5	11724.2	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.4	-1120.0	-0.33292	-0.33292 -414.4 -1119.0
			C:GEN:SEAB&OMS						1677				
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch			
3734	2116.6	11724.3	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.3	-1120.0	-0.33292	-0.33292 -414.4 -1119.1
			C:GEN:MILLST 3						1674				
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch			
3735	2116.6	11724.3	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.3	-1120.0	-0.33292	-0.33292 -414.4 -1119.1
			C:GEN:MLS3&OMS						1676				
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch			
3736	2116.9	11724.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.1	-1120.0	-0.33296	-0.33292 -414.4 -1119.2
			C:GEN:IND PT 3-New						1877				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		0.00000	0.02785	506.2	565.1
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		0.00072	-0.05540	-1009.3	-1126.6
3737	2117.0	11724.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.2	-1120.0	-0.33292	-0.33292 -414.4 -1119.2
			C:GEN:SALEM						1669				
			Remove unit 1 from bus	36	SALEM-G1		22.0	1107.4	MW	dispatch			
3738	2117.0	11724.7	*L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1		-415.1	-1120.0	-0.33296	-0.33292 -414.4 -1119.2
			C:GEN:IND PT 2-New						1876				
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1		0.00000	-0.02729	-493.4	-551.1
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2		0.00072	-0.05457	-986.7	-1102.3
5586	2136.5	11744.2	L: 126281 FISHKILL	345	126292	PL VILLE	345	1		1007.0	1936.0	0.43480	
			Base Case										
5587	2251.5	11859.2	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2		-417.1	-1120.0	-0.31219	-0.31219 -416.2 -1119.0
			C:GEN:SEABROOK						1675				
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch			
5588	2251.5	11859.2	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2		-417.1	-1120.0	-0.31219	-0.31219 -416.2 -1119.0
			C:GEN:SEAB&OMS						1677				
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch			
5589	2251.6	11859.3	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2		-417.1	-1120.0	-0.31219	-0.31219 -416.2 -1119.1
			C:GEN:MLS3&OMS						1676				
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch			
5590	2251.6	11859.3	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2		-417.1	-1120.0	-0.31219	-0.31219 -416.2 -1119.1
			C:GEN:MILLST 3						1674				
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch			
5591	2251.9	11859.6	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2		-416.9	-1120.0	-0.31223	-0.31219 -416.2 -1119.2



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			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA										
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA										
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch												
7451	3178.4	12786.1	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1284.2	3137.0	0.58294		0.53012	1063.2	2748.2				
			C:125001 ROCK TAV	345	125002	ROSETON	345	1	66										
			Open 125001 ROCK TAV	345	125002	ROSETON	345	1				-0.81291	-0.06498	-271.8	-478.3				
7452	3272.4	12880.1	L: 126266 DUNWODIE	345	126298	SPRBROOK	345	1	-1120.6	-3418.0	-0.70207		-0.42451	-477.7	-1866.9				
			C:126281 FISHKILL	345	126292	PL VILLE	345	1	173										
			Open 126281 FISHKILL	345	126292	PL VILLE	345	1				-0.63836	0.43480	1007.0	2429.9				
7453	3284.4	12892.1	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1308.7	3137.0	0.55667		0.53012	1063.2	2804.3				
			C:SIN:280					1781											
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				0.17784	0.13457	1198.2	1640.2				
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1				0.01157	0.12521	979.0	1390.3				
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1				-0.12270	0.00000	2.1	2.1				
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16645	0.00703	128.1	151.2				
7454	3304.9	12912.5	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1266.3	3137.0	0.56604		0.53012	1063.2	2815.2				
			C:SIN:230					1779											
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.25875	-0.13421	-701.3	-1144.8				
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1				0.16920	0.00703	128.1	151.3				
7455	3369.1	12976.8	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1238.2	3137.0	0.56361		0.53012	1063.2	2849.2				
			C:126263 BUCHANAN S	345	126290	LADENTWN	345	1	151										
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.24950	-0.13421	-701.3	-1153.4				
7456	3376.8	12984.5	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1268.9	3137.0	0.55322		0.53012	1063.2	2853.3				
			C:126262 BUCHANAN N	345	126267	E VIEW 2N	345	1	147										
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				0.17166	0.13457	1198.2	1652.6				
7457	3379.1	12986.8	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1267.4	3137.0	0.55327		0.53012	1063.2	2854.5				
			C:SIN:W93&W79					1678											
			Open 126262 BUCHANAN N	345	126267	E VIEW 2N	345	1				0.16081	0.13457	1198.2	1652.9				
			Open 126267 E VIEW 2N	345	126298	SPRBROOK	345	1				0.01205	0.12521	979.0	1402.1				
			Open 126267 E VIEW 2N	345	126378	EASTVIEW	138	1				-0.11825	0.00000	2.1	2.1				
7458	3411.0	13018.7	L: 126281 FISHKILL	345	126292	PL VILLE	345	1	23.0	3269.0	0.95162		0.43480	1007.0	2490.1				
			C:126266 DUNWODIE	345	126292	PL VILLE	345	1	155										
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				0.97728	0.52884	-1006.9	797.0				
7459	3411.0	13018.7	L: 126281 FISHKILL	345	126292	PL VILLE	345	1	23.0	3269.0	0.95162		0.43480	1007.0	2490.1				
			C:SIN:W89&W73					1686											
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				0.97728	0.52884	-1006.9	797.0				
			Open 126343 W73 TAP	345	126372	DUN SO	138	1				-0.00019	-0.00176	342.0	336.0				
7460	3430.3	13038.0	L: 125002 ROSETON	345	126281	FISHKILL	345	1	1229.5	3137.0	0.55608		0.53012	1063.2	2881.7				
			C:125001 ROCK TAV	345	126297	RAMAPO	345	2	70										
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	2				0.25163	0.10315	660.8	1014.6				
7461	3430.4	13038.1	*L: 125002 ROSETON	345	126281	FISHKILL	345	1	1229.4	3137.0	0.55608		0.53012	1063.2	2881.7				
			C:SIN:440					1786											
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.25163	0.10315	660.7	1014.5				
7478	3712.6	13320.3	L: 125021 DC CBLTP	115	125041	N.CHELSE	115	1	179.2	316.0	0.03686		0.02235	150.1	233.0				
			C:SIN:430					1785											
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.02737	0.53012	1063.2	3031.3				
7479	3712.6	13320.3	L: 125021 DC CBLTP	115	125041	N.CHELSE	115	1	179.2	316.0	0.03686		0.02235	150.1	233.0				
			C:125002 ROSETON	345	126281	FISHKILL	345	1	73										
			Open 125002 ROSETON	345	126281	FISHKILL	345	1				0.02737	0.53012	1063.2	3031.3				

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9288	4033.0	13640.7	L: 126372 DUN SO	138	126373 DUN SO N7	138	1	-339.8	-497.0	-0.03897	-0.00177	-298.0	-305.1
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	157					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.08764	-0.42451	-477.7	-2189.8
9289	4033.1	13640.7	L: 126298 SPRBROOK	345	126373 DUN SO N7	138	7	339.8	497.0	0.03897	0.00177	298.0	305.1
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1	157					
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.08764	-0.42451	-477.7	-2189.8
9290	4043.0	13650.7	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.7	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:SEAB&OMS					1677					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
9291	4043.0	13650.7	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.7	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:SEABROOK					1675					
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
9292	4043.2	13650.8	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:MILLST 3					1674					
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
9293	4043.2	13650.8	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:MLS3&OMS					1676					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
9294	4043.3	13651.0	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03002	-0.03001	-46.5	-167.9
			C:GEN:IND PT 3-New					1877					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			0.00000	0.02785	506.2	618.7
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			0.00008	-0.05540	-1009.3	-1233.3
9295	4043.3	13651.0	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03002	-0.03001	-46.5	-167.9
			C:GEN:IND PT 2-New					1876					
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	1			0.00000	-0.02729	-493.4	-603.7
			Open 126288 IP2 345	345	126651 IND PT 2	22.0	2			0.00008	-0.05457	-986.7	-1207.4
9296	4043.6	13651.3	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:SALEM					1669					
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch							
9297	4043.7	13651.4	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:PEACHBTM					1670					
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch							
9298	4043.8	13651.4	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:IND PT 3					1657					
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
9299	4043.8	13651.5*L:	125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.6	-168.0	-0.03001	-0.03001	-46.5	-167.9
			C:GEN:IND PT 2					1656					
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch							
11155	4238.1	13845.8	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1303.1	3269.0	0.46387	0.43480	1007.0	2849.8
			C:BUS:WOODA_345					1720					
			Open 126305 WOOD A	345	130758 WOODA345	345	1			-0.14751	-0.00303	133.4	120.6
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			0.28563	0.10020	1105.4	1530.0
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.11884	0.00000	0.0	0.0
11156	4238.1	13845.8	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1303.1	3269.0	0.46387	0.43480	1007.0	2849.8
			C:SER:F39&Y87					1684					
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			0.13812	0.10020	1105.4	1530.0
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.14751	-0.10323	-971.9	-1409.4



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			Open 126305 WOOD A	345	130758 WOODA345	345	1		NA					
			Open 130758 WOODA345	345	130865 WOODS115	115	1			0.02867	0.00000	0.0	0.0	
11157	4257.8	13865.5	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1092.9	3269.0	0.51109		0.43480	1007.0	2858.3
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1						157	
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1				-0.17972	-0.42451	-477.7	-2285.2
11158	4258.5	13866.2	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1303.1	3269.0	0.46164		0.43480	1007.0	2858.6
			C:126281 FISHKILL	345	126305 WOOD A	345	1						176	
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				0.26786	0.10020	1105.4	1532.1
11160	4277.3	13885.0	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1282.4	3269.0	0.46445		0.43480	1007.0	2866.8
			C:BUS:PLVILLW_345										1722	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.27257	-0.10323	-971.9	-1413.5
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.25018	0.00606	42.9	68.8
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.11563	0.00000	2.6	2.6
11161	4284.7	13892.4	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1278.8	3269.0	0.46448		0.43480	1007.0	2870.0
			C:SER:W90&W74										1685	
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.27263	-0.09717	-926.4	-1342.8
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				-0.01115	-0.00175	322.4	314.9
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.52279	0.00606	42.9	68.9
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.15690	0.00000	2.6	2.6
11163	4304.6	13912.3	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1274.9	3269.0	0.46325		0.43480	1007.0	2878.7
			C:126293 PL VILLW	345	126305 WOOD A	345	1						183	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.27560	-0.10323	-971.9	-1416.3
11164	4389.8	13997.5	*L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1248.9	3269.0	0.46017		0.43480	1007.0	2915.7
			C:126266 DUNWODIE	345	126293 PL VILLW	345	1						156	
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.26113	-0.09717	-926.4	-1353.0
11169	4553.6	14161.3	L: 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1	1198.2	1811.0	0.13457				
			Base Case											
11174	4629.9	14237.6	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	179.4	350.0	0.03686		0.02235	150.3	253.7
			C:125002 ROSETON	345	126281 FISHKILL	345	1						73	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02737	0.53012	1063.2	3517.6
11175	4629.9	14237.6	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1	179.4	350.0	0.03686		0.02235	150.3	253.7
			C:SIN:430										1785	
			Open 125002 ROSETON	345	126281 FISHKILL	345	1				0.02737	0.53012	1063.2	3517.6
11176	4705.7	14313.4	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1106.2	-3418.0	-0.49127		-0.42451	-477.7	-2475.3
			C:126293 PL VILLW	345	126305 WOOD A	345	1						183	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.64669	-0.10323	-971.9	-1457.7
11177	4733.8	14341.5	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1097.5	-3418.0	-0.49020		-0.42451	-477.7	-2487.3
			C:BUS:PLVILLW_345										1722	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.64939	-0.10323	-971.9	-1460.6
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.22288	0.00606	42.9	71.6
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				0.70449	0.00000	2.6	2.6
11182	4758.6	14366.3	L: 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1	1621.1	2528.0	0.19057		0.13457	1198.2	1838.6
			C:SIN:130										1771	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.33615	0.09481	850.6	1301.8
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.33615	0.09481	850.6	1301.8
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				0.13961	-0.05540	40.5	-223.2
			Open 126263 BUCHANAN S	345	147832 IP3	345	1							NA
			Open 147798 IP#3 GEN	22.0	147832 IP3	345	1							NA
			Open 147798 IP#3 GEN	22.0	147832 IP3	345	2							NA

## MillwoodSouthClosed

Remove unit 1 from bus 147798 IP#3 GEN 22.0 1040.4 MW dispatch													
11183	4758.6	14366.3	L: 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1	1621.1	2528.0	0.19057	0.13457	1198.2	1838.6
C:SIN:120 1770													
Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 1 0.33615 0.09481 850.6 1301.8													
Open 126263 BUCHANAN S 345 126291 MILLWOOD 345 2 0.33615 0.09481 850.6 1301.8													
Open 126263 BUCHANAN S 345 126290 LADENTWN 345 1 0.13961 -0.05540 40.5 -223.2													
Open 126263 BUCHANAN S 345 147832 IP3 345 345 1 NA													
Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 1 NA													
Open 147798 IP#3 GEN 22.0 147832 IP3 345 345 2 NA													
Remove unit 1 from bus 147798 IP#3 GEN 22.0 1040.4 MW dispatch													
11185	4774.2	14381.9	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1075.8	-3418.0	-0.49060	-0.42451	-477.7	-2504.4
C:BUS:WOODA_345 1720													
Open 126305 WOOD A 345 130758 WOODA345 345 1 0.78522 -0.00303 133.4 119.0													
Open 126281 FISHKILL 345 126305 WOOD A 345 1 -0.63584 0.10020 1105.4 1583.8													
Open 126293 PL VILLW 345 126305 WOOD A 345 1 0.70153 0.00000 0.0 0.0													
11186	4774.2	14381.9	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1075.8	-3418.0	-0.49060	-0.42451	-477.7	-2504.4
C:SER:F39&Y87 1684													
Open 126281 FISHKILL 345 126305 WOOD A 345 1 0.14938 0.10020 1105.4 1583.8													
Open 126293 PL VILLW 345 126305 WOOD A 345 1 0.78522 -0.10323 -971.9 -1464.8													
Open 126305 WOOD A 345 130758 WOODA345 345 1 NA													
Open 130758 WOODA345 345 130865 WOODS115 115 1 -0.08369 0.00000 0.0 0.0													
11187	4787.4	14395.1	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-477.7	-2510.0	-0.42451			
Base Case													
11189	4815.9	14423.6	L: 126368 DUN NO	138	126369 DUN NO S6	138	1	-319.7	-497.0	-0.03682	-0.00175	-280.2	-288.6
C:126266 DUNWODIE 345 126298 SPRBROOK 345 1 157													
Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1 0.08261 -0.42451 -477.7 -2522.1													
11190	4815.9	14423.6	L: 126298 SPRBROOK	345	126369 DUN NO S6	138	6	319.7	497.0	0.03682	0.00175	280.2	288.6
C:126266 DUNWODIE 345 126298 SPRBROOK 345 1 157													
Open 126266 DUNWODIE 345 126298 SPRBROOK 345 1 -0.08261 -0.42451 -477.7 -2522.1													
11192	4822.9	14430.6	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1070.7	-3418.0	-0.48671	-0.42451	-477.7	-2525.1
C:126266 DUNWODIE 345 126293 PL VILLW 345 1 156													
Open 126266 DUNWODIE 345 126293 PL VILLW 345 1 0.64006 -0.09717 -926.4 -1395.1													
11194	4847.0	14454.7	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-172.6	-345.0	-0.03556	-0.02157	-144.5	-249.1
C:125002 ROSETON 345 126281 FISHKILL 345 1 73													
Open 125002 ROSETON 345 126281 FISHKILL 345 1 -0.02641 0.53012 1063.2 3632.7													
11195	4847.0	14454.7	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1	-172.6	-345.0	-0.03556	-0.02157	-144.5	-249.1
C:SIN:430 1785													
Open 125002 ROSETON 345 126281 FISHKILL 345 1 -0.02641 0.53012 1063.2 3632.7													
11198	4874.4	14482.1	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-731.6	-3418.0	-0.55111	-0.42451	-477.7	-2547.0
C:SIN:430 1785													
Open 125002 ROSETON 345 126281 FISHKILL 345 1 -0.23882 0.53012 1063.2 3647.2													
11199	4874.4	14482.1	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-731.6	-3418.0	-0.55111	-0.42451	-477.7	-2547.0
C:125002 ROSETON 345 126281 FISHKILL 345 1 73													
Open 125002 ROSETON 345 126281 FISHKILL 345 1 -0.23882 0.53012 1063.2 3647.2													
11200	4892.0	14499.7	L: 126266 DUNWODIE	345	126298 SPRBROOK	345	1	-1076.0	-3418.0	-0.47875	-0.42451	-477.7	-2554.4
C:126281 FISHKILL 345 126305 WOOD A 345 1 176													
Open 126281 FISHKILL 345 126305 WOOD A 345 1 -0.54125 0.10020 1105.4 1595.6													

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, JAN 19 2012 12:02  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24195  
 First violation - 804.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24195 violations

Interface-1 Interface 16 I-TO-J Init.Flow= 3608.04 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo						
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init	Fin					
1	804.5	4412.6	L: 125002 ROSETON Base Case	345	125190	ROSE GN1	24.0	1	-414.4	-614.0	-0.24808			
2	850.5	4458.5	L: 125002 ROSETON Base Case	345	125192	ROSE GN2	24.0	2	-416.1	-614.0	-0.23263			
3	856.5	4464.6	L: 126481 RAINEY8W Base Case	138	126562	8W DUM	138	1	-66.7	-256.0	-0.22098			
4	856.7	4464.8	L: 126481 RAINEY8W Base Case	138	126507	VERNON-W	138	1	66.7	256.0	0.22098			
5	872.1	4480.2	L: 126600 REAC71 Base Case	345	126641	MOTT HAVEN	345	3	561.3	783.0	0.25424			
6	872.1	4480.2	L: 126266 DUNWODIE Base Case	345	126600	REAC71	345	SR	561.3	783.0	0.25424			
7	893.6	4501.6	L: 126601 REAC72 Base Case	345	126641	MOTT HAVEN	345	4	557.4	783.0	0.25244			
8	893.6	4501.6	L: 126266 DUNWODIE Base Case	345	126601	REAC72	345	SR	557.4	783.0	0.25244			
9	996.6	4604.6	L: 126480 RAINEY8E Base Case	138	126506	VERNON-E	138	1	20.8	251.0	0.23095			
10	997.2	4605.2	L: 126481 RAINEY8W C:GEN:NYPA_AS	138	126562	8W DUM	138	1	-151.6	-372.0	-0.22098	-0.22098	-66.7	-287
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW	dispatch							

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11	997.4	4605.4	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	151.6	372.0	0.22098	0.22098	66.7	287
			C:GEN:NYPA_AS											1654
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW	dispatch							
12	1000.8	4608.8	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-20.9	-252.0	-0.23095			
			Base Case											
13	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1						72
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			0.00000	0.01556	-416.4	-400
14	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:135263 BERRY RD	115	147950	WSTFIELD	115	1						516
			Open 135263 BERRY RD	115	147950	WSTFIELD	115	1			0.00000	-0.00000	49.3	49
15	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:135874-135877-1											1859
			Open 135874 SWDN-113	115	135877	UNIVRSTY	115	1			0.00000	-0.00000	22.3	22
16	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:126262 BUCHANAN N	345	126360	BUCHNTA5	138	1						150
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1			0.00000	0.00556	128.1	133
17	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3						1466
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3			0.00000	0.25424	561.3	817
18	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:136191 ELBRIDGE	115	136268	MILTTAP2	115	1						875
			Open 136191 ELBRIDGE	115	136268	MILTTAP2	115	1			0.00000	0.00001	27.4	27
19	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:137450 ALPS345	345	137454	REYNLD3	345	1						1084
			Open 137450 ALPS345	345	137454	REYNLD3	345	1			0.00000	-0.00161	-173.3	-174
20	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:136191 ELBRIDGE	115	136267	MILTTAP1	115	1						874
			Open 136191 ELBRIDGE	115	136267	MILTTAP1	115	1			0.00000	0.00001	33.8	33
21	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:147828 MASS 765	765	147837	MASS230A	230	1						1314
			Open 147828 MASS 765	765	147837	MASS230A	230	1			0.00000	0.00002	-150.6	-150
22	1009.3	4617.3	*L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:137910 TICN+OTN	115	137917	WHITEHAL	115	1						1266
			Open 137910 TICN+OTN	115	137917	WHITEHAL	115	1			0.00000	0.00000	28.4	28
836	1009.3	4617.3	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286			
			Base Case											
1869	1012.7	4620.8	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-108.1	-342.0	-0.23095	-0.23095	-20.9	-254
			C:GEN:NYPA_AS											1654
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW	dispatch							
1870	1012.9	4620.9	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	108.1	342.0	0.23095	0.23095	20.8	254
			C:GEN:NYPA_AS											1654



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Base Case														
3733	1255.5	4863.5	L: 126481 RAINY8W	138	126562	8W DUM	138	1	-93.2	-372.0	-0.22205	-0.22098	-66.7	-344
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		0.00469	-0.07988		239.7	139
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		-0.14234	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		0.00945	-0.07363		522.9	430
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00711	0.00000		0.5	0
3734	1255.7	4863.7	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	93.2	372.0	0.22205	0.22098	66.7	344
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		-0.00469	-0.07988		239.7	139
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		0.14234	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		-0.00945	-0.07363		522.9	430
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		0.00711	0.00000		0.5	0
3735	1256.8	4864.8	L: 126481 RAINY8W	138	126562	8W DUM	138	1	-92.8	-372.0	-0.22214	-0.22098	-66.7	-344
			C:BUS:GOWANUS_N_345					1726						
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		0.00941	-0.00625		40.3	32
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY		0.01410	-0.08047		239.7	138
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1		-0.13241	0.00000		230.9	230
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1		0.00941	-0.00000		49.7	49
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1		0.00941	-0.00000		49.7	49
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1		0.00231	0.01479		-87.4	-68
3736	1257.0	4865.0	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	92.8	372.0	0.22214	0.22098	66.7	344
			C:BUS:GOWANUS_N_345					1726						
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00941	-0.00625		40.3	32
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY		-0.01410	-0.08047		239.7	138
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1		0.13241	0.00000		230.9	230
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1		-0.00941	-0.00000		49.7	49
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1		-0.00941	-0.00000		49.7	49
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1		-0.00231	0.01479		-87.4	-68
3737	1264.5	4872.5	L: 126295 RAINEY	345	126562	8W DUM	138	8	-23.4	256.0	0.22098			
			Base Case											
3738	1267.1	4875.1	L: 126480 RAINY8E	138	126561	8E DUM	138	1	-48.0	-342.0	-0.23204	-0.23095	-20.9	-313
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		0.00479	-0.07988		239.7	138
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		-0.14565	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		0.00967	-0.07363		522.9	429
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00732	0.00000		0.5	0
3739	1267.2	4875.2	L: 126480 RAINY8E	138	126506	VERNON-E	138	1	48.0	342.0	0.23204	0.23095	20.8	313



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			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.03410	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.03410	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00400	0.00000	2.6	2	
3746	1316.1	4924.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-38.0	-342.0	-0.23095	-0.23095	-20.9	-324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1					1459	
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.03504	0.00000	489.9	489	
3747	1316.3	4924.3	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	38.0	342.0	0.23095	0.23095	20.8	324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1					1459	
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.03504	0.00000	489.9	489	
3748	1316.6	4924.6	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-37.9	-342.0	-0.23095	-0.23095	-20.9	-324
			C:BUS:TREMONT_345									1734	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		-0.03504	-0.00002	121.8	121	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		-0.03504	0.00002	121.8	121	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		-0.03504	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		-0.03504	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.00412	0.00000	2.6	2	
3749	1316.7	4924.8	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	37.9	342.0	0.23095	0.23095	20.8	324
			C:BUS:TREMONT_345									1734	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		0.03504	-0.00002	121.8	121	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		0.03504	0.00002	121.8	121	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.03504	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.03504	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00412	0.00000	2.6	2	
3750	1322.0	4930.0	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-79.9	-372.0	-0.22098	-0.22098	-66.7	-358
			C:SPRN-ACDMY									1882	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.03275	0.00000	401.9	401	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.6	-200	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.03677	0.00000	0.6	0	
3751	1322.2	4930.2	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	79.8	372.0	0.22098	0.22098	66.7	358
			C:SPRN-ACDMY									1882	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.03275	0.00000	401.9	401	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		0.00000	0.00000	-200.6	-200	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.03677	0.00000	0.6	0	
3752	1332.0	4940.0	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-34.4	-342.0	-0.23095	-0.23095	-20.9	-328





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3763	1355.8	4963.8*L:	126481 RAINY8W	138	126507 VERNON-W	138	1	71.6	372.0	0.22159	0.22098	66.7	366
			C:SIN:130				1771						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00316	0.08647	851.6	968
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00316	0.08647	851.6	968
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00151	-0.04128	40.5	-15
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW							dispatch
3769	1361.2	4969.2 L:	126480 RAINY8E	138	126561 8E DUM	138	1	-27.6	-342.0	-0.23095	-0.23095	-20.9	-335
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1465					
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1			-0.02887	0.00000	234.3	234
3770	1361.3	4969.4 L:	126480 RAINY8E	138	126506 VERNON-E	138	1	27.6	342.0	0.23095	0.23095	20.8	335
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1465					
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1			0.02887	0.00000	234.3	234
3781	1363.2	4971.2 L:	126480 RAINY8E	138	126561 8E DUM	138	1	-27.0	-342.0	-0.23110	-0.23095	-20.9	-335
			C:SER:W90&W74				1685						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			0.00103	-0.15284	-927.6	-1136
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			-0.01589	-0.00016	322.2	321
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			-0.00067	-0.00158	42.9	40
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.00321	0.00000	2.6	2
3782	1363.3	4971.3 L:	126480 RAINY8E	138	126506 VERNON-E	138	1	26.9	342.0	0.23110	0.23095	20.8	335
			C:SER:W90&W74				1685						
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.00103	-0.15284	-927.6	-1136
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			0.01589	-0.00016	322.2	321
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.00067	-0.00158	42.9	40
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.00321	0.00000	2.6	2
3790	1364.2	4972.2 L:	126480 RAINY8E	138	126561 8E DUM	138	1	-26.5	-342.0	-0.23128	-0.23095	-20.9	-335
			C:SER:W89&W73				1686						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			0.00106	-0.31583	-1008.1	-1438
			Open 126343 W73 TAP	345	126372 DUN SO	138	1			-0.01332	-0.00016	341.6	341
3792	1364.3	4972.4 L:	126480 RAINY8E	138	126506 VERNON-E	138	1	26.5	342.0	0.23128	0.23095	20.8	335
			C:SER:W89&W73				1686						
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.00106	-0.31583	-1008.1	-1439
			Open 126343 W73 TAP	345	126372 DUN SO	138	1			0.01332	-0.00016	341.6	341
3793	1365.0	4973.0*L:	126480 RAINY8E	138	126561 8E DUM	138	1	-25.9	-342.0	-0.23157	-0.23095	-20.9	-336
			C:SIN:120				1770						
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00156	-0.04128	40.5	-15
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW							dispatch
3795	1365.1	4973.2*L:	126480 RAINY8E	138	126506 VERNON-E	138	1	25.9	342.0	0.23157	0.23095	20.8	336
			C:SIN:130				1771						

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.00156	-0.04128	40.5	-15
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch			
11115	1405.5	5013.5	L: 126295 RAINEY	345	126562	8W DUM	138	8		61.4	372.0	0.22098	
			C:GEN:NYPA_AS						1654				
			Remove unit 1 from bus	147788	POLETGT2		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147789	POLETSTG		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147790	POLETGT1		18.0	155.3	MW	dispatch			
11124	1439.2	5047.2	L: 126295 RAINEY	345	126561	8E DUM	138	8		-82.2	252.0	0.23221	
			Base Case										
11133	1451.5	5059.5	L: 126295 RAINEY	345	126561	8E DUM	138	8		4.9	342.0	0.23221	
			C:GEN:NYPA_AS						1654				
			Remove unit 1 from bus	147788	POLETGT2		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147789	POLETSTG		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147790	POLETGT1		18.0	155.3	MW	dispatch			
11158	1493.5	5101.6	L: 126334 ASTE-ERG	138	126445	HG 4	138	1		-133.9	-179.0	-0.03023	
			Base Case										
11159	1496.5	5104.5	L: 126352 ASTE-WRG	138	126442	HG 1	138	1		-133.8	-179.0	-0.03023	
			Base Case										
11160	1517.8	5125.8	L: Interface	14	DUNWOODIE-SO					4826.2	6344.0	1.00000	
			Base Case										
11161	1578.8	5186.8	L: Interface	17	I-TO-J+K					4825.2	6404.0	1.00000	
			Base Case										
11164	1648.8	5256.9	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3		684.7	1196.0	0.31012	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1467				
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.22137	0.25244	557.4	973
11165	1648.8	5256.9	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3		684.7	1196.0	0.31012	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	161				
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.22137	0.25244	557.4	973
11166	1648.8	5256.9	L: 126266 DUNWODIE	345	126600	REAC71	345	SR		684.7	1196.0	0.31012	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1467				
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.22137	0.25244	557.4	973
11167	1648.8	5256.9	L: 126266 DUNWODIE	345	126600	REAC71	345	SR		684.7	1196.0	0.31012	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	161				
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.22137	0.25244	557.4	973
11170	1661.4	5269.5	L: 126295 RAINEY	345	126562	8W DUM	138	8		3.1	372.0	0.22205	
			C:BUS:GOWANUS_S_345						1727				
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		-0.00469	-0.07988	239.7	107
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		0.14234	-0.00000	228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000	49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000	44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		-0.00945	-0.07363	522.9	400

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			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			0.00711	0.00000	0.5	0
11171	1662.6	5270.7	L: 126295 RAINEY	345	126562 8W DUM	138	8	2.7	372.0	0.22214	0.22098	-23.4	344
			C:BUS:GOWANUS_N_345										1726
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			-0.00941	-0.00625	40.3	29
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY			-0.01410	-0.08047	239.7	105
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			0.13241	0.00000	230.9	230
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			-0.00941	-0.00000	49.7	49
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			-0.00941	-0.00000	49.7	49
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00231	0.01479	-87.4	-62
11172	1669.9	5277.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.22015	0.25424	561.3	985
11173	1669.9	5277.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.22015	0.25424	561.3	985
11174	1669.9	5277.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.22015	0.25424	561.3	985
11175	1669.9	5277.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.22015	0.25424	561.3	985
11176	1701.9	5310.0	L: 126295 RAINEY	345	126561 8E DUM	138	8	-55.1	342.0	0.23331	0.23221	-82.2	313
			C:BUS:GOWANUS_S_345										1727
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY			-0.00479	-0.07988	239.7	103
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1			0.14565	-0.00000	228.7	228
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1			0.00000	0.00000	49.7	49
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1			0.00000	0.00000	44.5	44
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1			-0.00967	-0.07363	522.9	397
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			0.00732	0.00000	0.5	0
11177	1703.1	5311.1	L: 126295 RAINEY	345	126561 8E DUM	138	8	-55.5	342.0	0.23340	0.23221	-82.2	313
			C:BUS:GOWANUS_N_345										1726
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			-0.00963	-0.00625	40.3	29
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY			-0.01443	-0.08047	239.7	102
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			0.13549	0.00000	230.9	230
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			-0.00963	-0.00000	49.7	49
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			-0.00963	-0.00000	49.7	49
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00232	0.01479	-87.4	-62
11178	1713.8	5321.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	-6.7	372.0	0.22098	0.22098	-23.4	355
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1459					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			0.03410	0.00000	489.9	489
11179	1714.2	5322.3	L: 126295 RAINEY	345	126562 8W DUM	138	8	-6.8	372.0	0.22098	0.22098	-23.4	355
			C:BUS:TREMONT_345										1734
			Open 126466 SECT 11	138	126470 38X01 T	138	1			0.03410	-0.00002	121.8	121
			Open 126466 SECT 11	138	126471 38X02 T	138	1			0.03410	0.00002	121.8	121

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			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1			0.03410	-0.00002	124.0	124		
			Open 126467 SECT 12	138	126473 38X04 T	138	1			0.03410	0.00002	119.6	119		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			-0.00400	0.00000	2.6	2		
11180	1729.9	5338.0	L: 126295 RAINEY	345	126562 8W DUM	138	8			-10.3	372.0	0.22098	0.22098	-23.4	358
			C:SPRN-ACDMY											1882	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1			0.03275	0.00000	401.9	401		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1			-0.00000	0.00000	-200.6	-200		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1			-0.03677	0.00000	0.6	0		
11181	1752.8	5360.8	L: 126295 RAINEY	345	126561 8E DUM	138	8			-65.0	342.0	0.23221	0.23221	-82.2	324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1459							
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			0.03504	0.00000	489.9	489		
11182	1753.2	5361.3	L: 126295 RAINEY	345	126561 8E DUM	138	8			-65.1	342.0	0.23221	0.23221	-82.2	324
			C:BUS:TREMONT_345											1734	
			Open 126466 SECT 11	138	126470 38X01 T	138	1			0.03504	-0.00002	121.8	121		
			Open 126466 SECT 11	138	126471 38X02 T	138	1			0.03504	0.00002	121.8	121		
			Open 126462 PARK TR1	138	126466 SECT 11	138	1		NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1			0.03504	-0.00002	124.0	124		
			Open 126467 SECT 12	138	126473 38X04 T	138	1			0.03504	0.00002	119.6	119		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1		NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1		NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1		NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1			-0.00412	0.00000	2.6	2		
11183	1759.6	5367.6	L: 126295 RAINEY	345	126562 8W DUM	138	8			-16.8	372.0	0.22098	0.22098	-23.4	365
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1465							
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1			0.02810	0.00000	234.3	234		
11184	1761.4	5369.4	L: 126295 RAINEY	345	126562 8W DUM	138	8			-17.5	372.0	0.22113	0.22098	-23.4	365
			C:SER:W90&W74											1685	
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.00100	-0.15284	-927.6	-1196		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			0.01546	-0.00016	322.2	321		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.00065	-0.00158	42.9	40		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.00311	0.00000	2.6	2		
11185	1762.1	5370.1	L: 126295 RAINEY	345	126562 8W DUM	138	8			-18.0	372.0	0.22131	0.22098	-23.4	366
			C:SER:W89&W73											1686	
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.00103	-0.31583	-1008.1	-1564		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1			0.01296	-0.00016	341.6	341		
11186	1762.4	5370.4	*L: 126295 RAINEY	345	126562 8W DUM	138	8			-18.5	372.0	0.22159	0.22098	-23.4	366
			C:SIN:120											1770	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00316	0.08647	851.6	1004		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00316	0.08647	851.6	1004		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00151	-0.04128	40.5	-32		
			Open 126263 BUCHANAN S	345	147832 IP3	345	1		NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3	345	1		NA						

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			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA												
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch												
11190	1768.5	5376.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	666.1	1196.0	0.29965		0.25424	561.3	1010						
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197													
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR					0.18409	0.24666	569.3	1005					
11191	1768.5	5376.6	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	666.1	1196.0	0.29965		0.25424	561.3	1010						
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198													
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR					0.18409	0.24666	569.3	1005					
11193	1768.5	5376.6	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	666.1	1196.0	0.29965		0.25424	561.3	1010						
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198													
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR					0.18409	0.24666	569.3	1005					
11194	1768.5	5376.6	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	666.1	1196.0	0.29965		0.25424	561.3	1010						
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197													
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR					0.18409	0.24666	569.3	1005					
11195	1768.6	5376.6	L: 126295 RAINEY	345	126561 8E DUM	138 8	-68.7	342.0	0.23221		0.23221	-82.2	328						
			C:SPRN-ACDMY			1882													
			Open 126298 SPRBROOK	345	126847 ACADEMY	345 1					0.03366	0.00000	401.9	401					
			Open 126780 SCK-PARW	138	126847 ACADEMY	345 1					-0.00000	0.00000	-200.6	-200					
			Open 126781 SCK-PARE	138	126847 ACADEMY	345 1					-0.03779	0.00000	0.6	0					
11198	1770.0	5378.0	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	665.6	1196.0	0.29965		0.25424	561.3	1011						
			C:126304 W 49 ST	345	126518 REACM52	345 2 1462													
			Open 126304 W 49 ST	345	126518 REACM52	345 2					-0.18409	-0.24666	-566.9	-1003					
11199	1770.0	5378.0	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	665.6	1196.0	0.29965		0.25424	561.3	1011						
			C:126304 W 49 ST	345	126517 REACM51	345 1 1461													
			Open 126304 W 49 ST	345	126517 REACM51	345 1					-0.18409	-0.24666	-566.9	-1003					
11200	1770.0	5378.0	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	665.6	1196.0	0.29965		0.25424	561.3	1011						
			C:126304 W 49 ST	345	126517 REACM51	345 1 1461													
			Open 126304 W 49 ST	345	126517 REACM51	345 1					-0.18409	-0.24666	-566.9	-1003					
11201	1770.0	5378.0	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	665.6	1196.0	0.29965		0.25424	561.3	1011						
			C:126304 W 49 ST	345	126518 REACM52	345 2 1462													
			Open 126304 W 49 ST	345	126518 REACM52	345 2					-0.18409	-0.24666	-566.9	-1003					
13023	1796.5	5404.6	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4	661.5	1196.0	0.29753		0.25244	557.4	1010						
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198													
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR					0.18279	0.24666	569.3	1012					
13024	1796.5	5404.6	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4	661.5	1196.0	0.29753		0.25244	557.4	1010						
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197													
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR					0.18279	0.24666	569.3	1012					
13025	1796.5	5404.6	L: 126266 DUNWODIE	345	126601 REAC72	345 SR	661.5	1196.0	0.29753		0.25244	557.4	1010						
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198													
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR					0.18279	0.24666	569.3	1012					
13026	1796.5	5404.6	L: 126266 DUNWODIE	345	126601 REAC72	345 SR	661.5	1196.0	0.29753		0.25244	557.4	1010						
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197													
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR					0.18279	0.24666	569.3	1012					
13028	1797.6	5405.6	L: 126295 RAINEY	345	126561 8E DUM	138 8	-75.4	342.0	0.23221		0.23221	-82.2	335						
			C:126374 DUN SOLR	138	126385 E179 ST	138 1 1465													
			Open 126374 DUN SOLR	138	126385 E179 ST	138 1					0.02887	0.00000	234.3	234					

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13029	1798.0	5406.0	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	661.0	1196.0	0.29753	0.25244	557.4	1011	
			C:126304 W 49 ST	345	126517	REACM51	345	1	1461						
			Open 126304 W 49 ST	345	126517	REACM51	345	1				-0.18279	-0.24666	-566.9	-1010
13030	1798.0	5406.0	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	661.0	1196.0	0.29753	0.25244	557.4	1011	
			C:126304 W 49 ST	345	126518	REACM52	345	2	1462						
			Open 126304 W 49 ST	345	126518	REACM52	345	2				-0.18279	-0.24666	-566.9	-1010
13031	1798.0	5406.0	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	661.0	1196.0	0.29753	0.25244	557.4	1011	
			C:126304 W 49 ST	345	126517	REACM51	345	1	1461						
			Open 126304 W 49 ST	345	126517	REACM51	345	1				-0.18279	-0.24666	-566.9	-1010
13032	1798.0	5406.0	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	661.0	1196.0	0.29753	0.25244	557.4	1011	
			C:126304 W 49 ST	345	126518	REACM52	345	2	1462						
			Open 126304 W 49 ST	345	126518	REACM52	345	2				-0.18279	-0.24666	-566.9	-1010
13035	1799.3	5407.3	L: 126295 RAINEY	345	126561	8E DUM	138	8	-76.1	342.0	0.23237	0.23221	-82.2	335	
			C:SER:W90&W74												
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				-0.00103	-0.15284	-927.6	-1202
			Open 126342 W74 TAP	345	126368	DUN NO	138	1				0.01589	-0.00016	322.2	321
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				0.00067	-0.00158	42.9	40
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				-0.00321	0.00000	2.6	2
13039	1800.0	5408.0	L: 126295 RAINEY	345	126561	8E DUM	138	8	-76.6	342.0	0.23255	0.23221	-82.2	335	
			C:SER:W89&W73												
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1				-0.00106	-0.31583	-1008.1	-1576
			Open 126343 W73 TAP	345	126372	DUN SO	138	1				0.01332	-0.00016	341.6	341
13040	1800.2	5408.2	*L: 126295 RAINEY	345	126561	8E DUM	138	8	-77.2	342.0	0.23284	0.23221	-82.2	335	
			C:SIN:130												
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00326	0.08647	851.6	1007
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.00326	0.08647	851.6	1007
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				-0.00156	-0.04128	40.5	-33
			Open 126263 BUCHANAN S	345	147832	IP3	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	1	NA						
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	2	NA						
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch					
14900	1934.6	5542.6	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-276.0	-783.0	-0.26208				
			Base Case												
14903	2144.9	5752.9	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	4	-258.3	-783.0	-0.24461				
			Base Case												
14904	2241.5	5849.6	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	626.1	1196.0	0.25424	0.25424	561.3	1131	
			C:GEN:SCS AST												
			Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch						
			Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch						
			Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch						
14905	2241.5	5849.6	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	626.1	1196.0	0.25424	0.25424	561.3	1131	
			C:GEN:SCS AST												
			Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW	dispatch						
			Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW	dispatch						
			Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW	dispatch						
14906	2274.5	5882.6	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	621.8	1196.0	0.25244	0.25244	557.4	1131	





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			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.05091	-0.00000	308.4	308
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.06495	0.00000	2.2	2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.06495	0.00000	-0.0	-0
14918	2404.6	6012.6	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	589.0	1196.0	0.25244	0.25244	557.4	1164
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05091	-0.00000	620.1	620
14919	2404.6	6012.6	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	589.0	1196.0	0.25244	0.25244	557.4	1164
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05091	-0.00000	620.1	620
14924	2419.3	6027.3	*L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	585.8	1196.0	0.25224	0.25244	557.4	1168
			C:SIN:360										
			Open 4996 LINDEN	230	126321 GOETHALS	230	1			0.08067	0.00000	333.1	333
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1			0.00015	-0.02452	-64.0	-123
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			0.00284	-0.07192	522.9	348
14925	2419.3	6027.4	*L: 126266 DUNWODIE	345	126601 REAC72	345	SR	585.8	1196.0	0.25224	0.25244	557.4	1168
			C:SIN:360										
			Open 4996 LINDEN	230	126321 GOETHALS	230	1			0.08067	0.00000	333.1	333
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1			0.00015	-0.02452	-64.0	-123
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			0.00284	-0.07192	522.9	348
18645	2525.6	6133.7	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	684.7	1434.0	0.29668	0.24666	569.3	1192
			C:126298 SPRBROOK	345	126518 REACM52	345	SR						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.20279	0.24666	569.3	1192
18646	2525.6	6133.7	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	684.7	1434.0	0.29668	0.24666	569.3	1192
			C:126298 SPRBROOK	345	126517 REACM51	345	SR						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.20279	0.24666	569.3	1192
18740	2527.3	6135.3	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	684.2	1434.0	0.29668	0.24666	569.3	1192
			C:126304 W 49 ST	345	126518 REACM52	345	2						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.20279	-0.24666	-566.9	-1190
18741	2527.3	6135.3	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	684.2	1434.0	0.29668	0.24666	569.3	1192
			C:126304 W 49 ST	345	126517 REACM51	345	1						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.20279	-0.24666	-566.9	-1190
21798	2533.6	6141.6	L: 126304 W 49 ST	345	126517 REACM51	345	1	-682.3	-1434.0	-0.29668	-0.24666	-566.9	-1191
			C:126298 SPRBROOK	345	126518 REACM52	345	SR						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.20279	0.24666	569.3	1194
21799	2533.6	6141.6	L: 126304 W 49 ST	345	126518 REACM52	345	2	-682.3	-1434.0	-0.29668	-0.24666	-566.9	-1191
			C:126298 SPRBROOK	345	126517 REACM51	345	SR						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.20279	0.24666	569.3	1194
21844	2535.2	6143.3	L: 126304 W 49 ST	345	126518 REACM52	345	2	-681.9	-1434.0	-0.29668	-0.24666	-566.9	-1192
			C:126304 W 49 ST	345	126517 REACM51	345	1						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.20279	-0.24666	-566.9	-1192
21845	2535.2	6143.3	L: 126304 W 49 ST	345	126517 REACM51	345	1	-681.9	-1434.0	-0.29668	-0.24666	-566.9	-1192
			C:126304 W 49 ST	345	126518 REACM52	345	2						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.20279	-0.24666	-566.9	-1192
21926	2542.3	6150.4	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1008.1	-1811.0	-0.31583			
			Base Case										
22155	2599.8	6207.8	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1064.3	1935.0	0.33489			

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Base Case													
22168	2608.9	6217.0	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	670.7	1434.0	0.29259	0.24666	569.3	1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466						
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.18066	0.25424	561.3	1224
22169	2608.9	6217.0	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	670.7	1434.0	0.29259	0.24666	569.3	1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466						
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.18066	0.25424	561.3	1224
22170	2608.9	6217.0	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	670.7	1434.0	0.29259	0.24666	569.3	1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160						
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.18066	0.25424	561.3	1224
22171	2608.9	6217.0	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	670.7	1434.0	0.29259	0.24666	569.3	1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160						
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.18066	0.25424	561.3	1224
22180	2615.4	6223.4	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	669.8	1434.0	0.29219	0.24666	569.3	1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467						
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			0.18037	0.25244	557.4	1217
22181	2615.4	6223.4	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	669.8	1434.0	0.29219	0.24666	569.3	1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467						
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			0.18037	0.25244	557.4	1217
22182	2615.4	6223.4	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	669.8	1434.0	0.29219	0.24666	569.3	1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161						
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			0.18037	0.25244	557.4	1217
22183	2615.4	6223.4	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	669.8	1434.0	0.29219	0.24666	569.3	1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161						
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			0.18037	0.25244	557.4	1217
22184	2617.0	6225.0	L: 126304 W 49 ST	345	126517 REACM51	345	1	-668.3	-1434.0	-0.29259	-0.24666	-566.9	-1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466						
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			-0.18066	0.25424	561.3	1226
22185	2617.0	6225.0	L: 126304 W 49 ST	345	126518 REACM52	345	2	-668.3	-1434.0	-0.29259	-0.24666	-566.9	-1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466						
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			-0.18066	0.25424	561.3	1226
22186	2617.0	6225.0	L: 126304 W 49 ST	345	126517 REACM51	345	1	-668.3	-1434.0	-0.29259	-0.24666	-566.9	-1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160						
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			-0.18066	0.25424	561.3	1226
22187	2617.0	6225.0	L: 126304 W 49 ST	345	126518 REACM52	345	2	-668.3	-1434.0	-0.29259	-0.24666	-566.9	-1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160						
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			-0.18066	0.25424	561.3	1226
22198	2623.5	6231.5	L: 126304 W 49 ST	345	126517 REACM51	345	1	-667.4	-1434.0	-0.29219	-0.24666	-566.9	-1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467						
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			-0.18037	0.25244	557.4	1219
22199	2623.5	6231.5	L: 126304 W 49 ST	345	126517 REACM51	345	1	-667.4	-1434.0	-0.29219	-0.24666	-566.9	-1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161						
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			-0.18037	0.25244	557.4	1219
22200	2623.5	6231.5	L: 126304 W 49 ST	345	126518 REACM52	345	2	-667.4	-1434.0	-0.29219	-0.24666	-566.9	-1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467						
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			-0.18037	0.25244	557.4	1219

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22201	2623.5	6231.5	L: 126304 W 49 ST	345	126518	REACM52	345	2	-667.4	-1434.0	-0.29219	-0.24666	-566.9	-1214
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 161						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR			-0.18037	0.25244	557.4	1219
22208	2628.8	6236.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-384.0	-1196.0	-0.30889	-0.26208	-276.0	-964
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 198						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR			-0.18977	0.24666	569.3	1217
22209	2628.8	6236.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-384.0	-1196.0	-0.30889	-0.26208	-276.0	-964
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 197						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR			-0.18977	0.24666	569.3	1217
22210	2630.2	6238.3	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-383.6	-1196.0	-0.30889	-0.26208	-276.0	-965
			C:126304 W 49 ST	345	126518	REACM52	345	2 1462						
			Open 126304 W 49 ST	345	126518	REACM52	345	2			0.18977	-0.24666	-566.9	-1215
22211	2630.2	6238.3	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-383.6	-1196.0	-0.30889	-0.26208	-276.0	-965
			C:126304 W 49 ST	345	126517	REACM51	345	1 1461						
			Open 126304 W 49 ST	345	126517	REACM51	345	1			0.18977	-0.24666	-566.9	-1215
22318	2818.5	6426.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-420.8	-1120.0	-0.24808	-0.24808	-414.4	-1113
			C:SIN:250					1780						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0	MW	dispatch				
22319	2823.2	6431.3	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114
			C:SIN:130					1771						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00000	0.08647	851.6	1095
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00000	0.08647	851.6	1095
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00000	-0.04128	40.5	-76
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN		22.0	1040.4	MW	dispatch				
22320	2823.2	6431.3	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114
			C:SIN:120					1770						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00000	0.08647	851.6	1095
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00000	0.08647	851.6	1095
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00000	-0.04128	40.5	-76
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN		22.0	1040.4	MW	dispatch				
22325	2840.4	6448.4	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:SEABROOK					1675						
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch				
22326	2840.4	6448.4	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:SEAB&OMS					1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0	MW	dispatch				
22327	2840.5	6448.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.3	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:MLS3&OMS					1676						

## DunwoodieSouth

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- THU, JAN 19 2012 12:02  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24195  
 First violation - 804.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24195 violations

Interface-1 Interface 14 DUNWOODIE-SO Init.Flow= 4826.22 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flo
			C: Contingency description	__Ncon	Flow Rating		LODF	Init Fina
1	804.5	5630.8	L: 125002 ROSETON Base Case	345	125190 ROSE GN1	24.0 1	-414.4	-614.0 -0.24808
2	850.5	5676.7	L: 125002 ROSETON Base Case	345	125192 ROSE GN2	24.0 2	-416.1	-614.0 -0.23263
3	856.5	5682.7	L: 126481 RAINEY8W Base Case	138	126562 8W DUM	138 1	-66.7	-256.0 -0.22098
4	856.7	5682.9	L: 126481 RAINEY8W Base Case	138	126507 VERNON-W	138 1	66.7	256.0 0.22098
5	872.1	5698.4	L: 126600 REAC71 Base Case	345	126641 MOTT HAVEN	345 3	561.3	783.0 0.25424
6	872.1	5698.4	L: 126266 DUNWODIE Base Case	345	126600 REAC71	345 SR	561.3	783.0 0.25424
7	893.6	5719.8	L: 126601 REAC72 Base Case	345	126641 MOTT HAVEN	345 4	557.4	783.0 0.25244
8	893.6	5719.8	L: 126266 DUNWODIE Base Case	345	126601 REAC72	345 SR	557.4	783.0 0.25244
9	996.6	5822.8	L: 126480 RAINEY8E Base Case	138	126506 VERNON-E	138 1	20.8	251.0 0.23095
10	997.2	5823.4	L: 126481 RAINEY8W C:GEN:NYPA_AS	138	126562 8W DUM	138 1	-151.6	-372.0 -0.22098 -0.22098 -66.7 -287
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3 MW	dispatch		
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3 MW	dispatch		
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3 MW	dispatch		

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11	997.4	5823.6	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	151.6	372.0	0.22098	0.22098	66.7	287
			C:GEN:NYPA_AS											1654
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW	dispatch							
12	1000.8	5827.0	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-20.9	-252.0	-0.23095			
			Base Case											
13	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1						72
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1			0.00000	0.01556	-416.4	-400
14	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:135263 BERRY RD	115	147950	WSTFIELD	115	1						516
			Open 135263 BERRY RD	115	147950	WSTFIELD	115	1			0.00000	-0.00000	49.3	49
15	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:135874-135877-1											1859
			Open 135874 SWDN-113	115	135877	UNIVRSTY	115	1			0.00000	-0.00000	22.3	22
16	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:126262 BUCHANAN N	345	126360	BUCHNTA5	138	1						150
			Open 126262 BUCHANAN N	345	126360	BUCHNTA5	138	1			0.00000	0.00556	128.1	133
17	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3						1466
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3			0.00000	0.25424	561.3	817
18	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:136191 ELBRIDGE	115	136268	MILTTAP2	115	1						875
			Open 136191 ELBRIDGE	115	136268	MILTTAP2	115	1			0.00000	0.00001	27.4	27
19	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:137450 ALPS345	345	137454	REYNLD3	345	1						1084
			Open 137450 ALPS345	345	137454	REYNLD3	345	1			0.00000	-0.00161	-173.3	-174
20	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:136191 ELBRIDGE	115	136267	MILTTAP1	115	1						874
			Open 136191 ELBRIDGE	115	136267	MILTTAP1	115	1			0.00000	0.00001	33.8	33
21	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:147828 MASS 765	765	147837	MASS230A	230	1						1314
			Open 147828 MASS 765	765	147837	MASS230A	230	1			0.00000	0.00002	-150.6	-150
22	1009.3	5835.5	*L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286	0.25286	44.8	300
			C:137910 TICN+OTN	115	137917	WHITEHAL	115	1						1266
			Open 137910 TICN+OTN	115	137917	WHITEHAL	115	1			0.00000	0.00000	28.4	28
836	1009.3	5835.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	300.0	0.25286			
			Base Case											
1869	1012.7	5839.0	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-108.1	-342.0	-0.23095	-0.23095	-20.9	-254
			C:GEN:NYPA_AS											1654
			Remove unit 1 from bus 147788 POLETGT2	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147789 POLETSTG	18.0	155.3	MW	dispatch							
			Remove unit 1 from bus 147790 POLETGT1	18.0	155.3	MW	dispatch							
1870	1012.9	5839.1	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	108.1	342.0	0.23095	0.23095	20.8	254
			C:GEN:NYPA_AS											1654

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				Remove unit 1 from bus 147788 POLETGT2	18.0	155.3 MW	dispatch							
				Remove unit 1 from bus 147789 POLETSTG	18.0	155.3 MW	dispatch							
				Remove unit 1 from bus 147790 POLETGT1	18.0	155.3 MW	dispatch							
1871	1182.8	6009.0	L:	126298 SPRBROOK 345 126518 REACM52	345	SR	569.3	861.0	0.24666					
				Base Case										
1872	1182.8	6009.0	L:	126298 SPRBROOK 345 126517 REACM51	345	SR	569.3	861.0	0.24666					
				Base Case										
1873	1192.3	6018.6	L:	126304 W 49 ST 345 126518 REACM52	345	2	-566.9	-861.0	-0.24666					
				Base Case										
1874	1192.3	6018.6	L:	126304 W 49 ST 345 126517 REACM51	345	1	-566.9	-861.0	-0.24666					
				Base Case										
1875	1213.0	6039.2	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:SEAB&OMS										
				Open 100508 SANDB115 115 100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0	
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
1876	1213.0	6039.2	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:SEABROOK										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch							
1877	1213.1	6039.3	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:MLS3&OMS										
				Open 100508 SANDB115 115 100509 SB RCTOR	115	2				0.00000	0.00000	-0.0	-0	
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
1878	1213.1	6039.3	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:MILLST 3										
				Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
1879	1213.4	6039.7	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:SALEM										
				Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4 MW	dispatch							
1880	1213.5	6039.8	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.8	300.0	0.12373		0.12372	149.6	299	
				C:GEN:IND PT 3-New										
				Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	1				0.00000	0.02075	506.2	531	
				Open 147798 IP#3 GEN 22.0 147832 IP3 345	345	2				-0.00025	-0.04128	-1009.3	-1059	
1881	1213.6	6039.8	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:PEACHBTM										
				Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0 MW	dispatch							
1882	1213.6	6039.8	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:IND PT 3										
				Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW	dispatch							
1883	1213.6	6039.8	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.8	300.0	0.12373		0.12372	149.6	299	
				C:GEN:IND PT 2-New										
				Open 126288 IP2 345 345 126651 IND PT 2	22.0	1				0.00000	-0.02033	-493.4	-518	
				Open 126288 IP2 345 345 126651 IND PT 2	22.0	2				-0.00025	-0.04066	-986.7	-1036	
1884	1213.6	6039.8	*L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.9	300.0	0.12372		0.12372	149.6	299	
				C:GEN:IND PT 2										
				Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8 MW	dispatch							
2809	1215.7	6041.9	L:	120701 STARS-00701 13.8 125001 ROCK TAV	345	01	149.6	300.0	0.12372					

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Base Case														
3733	1255.5	6081.7	L: 126481 RAINY8W	138	126562	8W DUM	138	1	-93.2	-372.0	-0.22205	-0.22098	-66.7	-344
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		0.00469	-0.07988		239.7	139
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		-0.14234	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		0.00945	-0.07363		522.9	430
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00711	0.00000		0.5	0
3734	1255.7	6081.9	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	93.2	372.0	0.22205	0.22098	66.7	344
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		-0.00469	-0.07988		239.7	139
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		0.14234	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		-0.00945	-0.07363		522.9	430
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		0.00711	0.00000		0.5	0
3735	1256.8	6083.0	L: 126481 RAINY8W	138	126562	8W DUM	138	1	-92.8	-372.0	-0.22214	-0.22098	-66.7	-344
			C:BUS:GOWANUS_N_345					1726						
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		0.00941	-0.00625		40.3	32
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY		0.01410	-0.08047		239.7	138
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1		-0.13241	0.00000		230.9	230
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1		0.00941	-0.00000		49.7	49
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1		0.00941	-0.00000		49.7	49
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1		0.00231	0.01479		-87.4	-68
3736	1257.0	6083.2	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	92.8	372.0	0.22214	0.22098	66.7	344
			C:BUS:GOWANUS_N_345					1726						
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00941	-0.00625		40.3	32
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY		-0.01410	-0.08047		239.7	138
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1		0.13241	0.00000		230.9	230
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1		-0.00941	-0.00000		49.7	49
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1		-0.00941	-0.00000		49.7	49
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1		-0.00231	0.01479		-87.4	-68
3737	1264.5	6090.7	L: 126295 RAINY	345	126562	8W DUM	138	8	-23.4	256.0	0.22098			
			Base Case											
3738	1267.1	6093.3	L: 126480 RAINY8E	138	126561	8E DUM	138	1	-48.0	-342.0	-0.23204	-0.23095	-20.9	-313
			C:BUS:GOWANUS_S_345					1727						
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		0.00479	-0.07988		239.7	138
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		-0.14565	-0.00000		228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000		49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000		44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		0.00967	-0.07363		522.9	429
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1		-0.00732	0.00000		0.5	0
3739	1267.2	6093.4	L: 126480 RAINY8E	138	126506	VERNON-E	138	1	48.0	342.0	0.23204	0.23095	20.8	313

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			C:BUS:GOWANUS_S_345				1727								
			Open	126287	GOWANUSS	345	126591	GOWANUS 42SR	345	BY	-0.00479	-0.07988	239.7	138	
			Open	126287	GOWANUSS	345	126429	GOWNUS2T	138	1	0.14565	-0.00000	228.7	228	
			Open	126287	GOWANUSS	345	126622	GATE 3	138	1	0.00000	0.00000	49.7	49	
			Open	126287	GOWANUSS	345	126623	GATE 4	138	1	0.00000	0.00000	44.5	44	
			Open	126285	GOTHLS S	345	126287	GOWANUSS	345	1	-0.00967	-0.07363	522.9	429	
			Open	126286	GOWANUSN	345	126287	GOWANUSS	345	1	0.00732	0.00000	0.5	0	
3740	1268.4	6094.6	L:	126480	RAINEY8E	138	126561	8E DUM	138	1	-47.6	-342.0	-0.23213	-20.9	-313
			C:BUS:GOWANUS_N_345				1726								
			Open	126286	GOWANUSN	345	126287	GOWANUSS	345	1	0.00963	-0.00625	40.3	32	
			Open	126286	GOWANUSN	345	126590	GOWANUS 41SR	345	BY	0.01443	-0.08047	239.7	137	
			Open	126286	GOWANUSN	345	126427	GOWNUS1T	138	1	-0.13549	0.00000	230.9	230	
			Open	126286	GOWANUSN	345	126620	GATE 1	138	1	0.00963	-0.00000	49.7	49	
			Open	126286	GOWANUSN	345	126621	GATE 2	138	1	0.00963	-0.00000	49.7	49	
			Open	121003	STARS-01003	13.8	126286	GOWANUSN	345	03	NA				
			Open	126283	GOTHLS N	345	126286	GOWANUSN	345	1	0.00232	0.01479	-87.4	-68	
3741	1268.5	6094.7	L:	126480	RAINEY8E	138	126506	VERNON-E	138	1	47.5	342.0	0.23213	20.8	313
			C:BUS:GOWANUS_N_345				1726								
			Open	126286	GOWANUSN	345	126287	GOWANUSS	345	1	-0.00963	-0.00625	40.3	32	
			Open	126286	GOWANUSN	345	126590	GOWANUS 41SR	345	BY	-0.01443	-0.08047	239.7	137	
			Open	126286	GOWANUSN	345	126427	GOWNUS1T	138	1	0.13549	0.00000	230.9	230	
			Open	126286	GOWANUSN	345	126620	GATE 1	138	1	-0.00963	-0.00000	49.7	49	
			Open	126286	GOWANUSN	345	126621	GATE 2	138	1	-0.00963	-0.00000	49.7	49	
			Open	121003	STARS-01003	13.8	126286	GOWANUSN	345	03	NA				
			Open	126283	GOTHLS N	345	126286	GOWANUSN	345	1	-0.00232	0.01479	-87.4	-68	
3742	1305.8	6132.1	L:	126481	RAINEY8W	138	126562	8W DUM	138	1	-83.4	-372.0	-0.22098	-66.7	-355
			C:	126298	SPRBROOK	345	126301	TREMONT	345	1	1459				
			Open	126298	SPRBROOK	345	126301	TREMONT	345	1	-0.03410	0.00000	489.9	489	
3743	1306.1	6132.3	L:	126481	RAINEY8W	138	126507	VERNON-W	138	1	83.4	372.0	0.22098	66.7	355
			C:	126298	SPRBROOK	345	126301	TREMONT	345	1	1459				
			Open	126298	SPRBROOK	345	126301	TREMONT	345	1	0.03410	0.00000	489.9	489	
3744	1306.3	6132.5	L:	126481	RAINEY8W	138	126562	8W DUM	138	1	-83.3	-372.0	-0.22098	-66.7	-355
			C:BUS:TREMONT_345				1734								
			Open	126466	SECT 11	138	126470	38X01 T	138	1	-0.03410	-0.00002	121.8	121	
			Open	126466	SECT 11	138	126471	38X02 T	138	1	-0.03410	0.00002	121.8	121	
			Open	126462	PARK TR1	138	126466	SECT 11	138	1	NA				
			Open	126467	SECT 12	138	126472	38X03 T	138	1	-0.03410	-0.00002	124.0	124	
			Open	126467	SECT 12	138	126473	38X04 T	138	1	-0.03410	0.00002	119.6	119	
			Open	126463	PARK TR2	138	126467	SECT 12	138	1	NA				
			Open	126301	TREMONT	345	126462	PARK TR1	138	1	NA				
			Open	126301	TREMONT	345	126463	PARK TR2	138	1	NA				
			Open	126298	SPRBROOK	345	126301	TREMONT	345	1	0.00400	0.00000	2.6	2	
3745	1306.5	6132.7	L:	126481	RAINEY8W	138	126507	VERNON-W	138	1	83.3	372.0	0.22098	66.7	355
			C:BUS:TREMONT_345				1734								
			Open	126466	SECT 11	138	126470	38X01 T	138	1	0.03410	-0.00002	121.8	121	
			Open	126466	SECT 11	138	126471	38X02 T	138	1	0.03410	0.00002	121.8	121	



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			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.03410	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.03410	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00400	0.00000	2.6	2	
3746	1316.1	6142.4	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-38.0	-342.0	-0.23095	-0.23095	-20.9	-324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1					1459	
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.03504	0.00000	489.9	489	
3747	1316.3	6142.5	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	38.0	342.0	0.23095	0.23095	20.8	324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1					1459	
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.03504	0.00000	489.9	489	
3748	1316.6	6142.8	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-37.9	-342.0	-0.23095	-0.23095	-20.9	-324
			C:BUS:TREMONT_345									1734	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		-0.03504	-0.00002	121.8	121	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		-0.03504	0.00002	121.8	121	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		-0.03504	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		-0.03504	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		0.00412	0.00000	2.6	2	
3749	1316.7	6142.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	37.9	342.0	0.23095	0.23095	20.8	324
			C:BUS:TREMONT_345									1734	
			Open 126466 SECT 11	138	126470 38X01 T	138	1		0.03504	-0.00002	121.8	121	
			Open 126466 SECT 11	138	126471 38X02 T	138	1		0.03504	0.00002	121.8	121	
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA					
			Open 126467 SECT 12	138	126472 38X03 T	138	1		0.03504	-0.00002	124.0	124	
			Open 126467 SECT 12	138	126473 38X04 T	138	1		0.03504	0.00002	119.6	119	
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA					
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA					
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA					
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1		-0.00412	0.00000	2.6	2	
3750	1322.0	6148.2	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-79.9	-372.0	-0.22098	-0.22098	-66.7	-358
			C:SPRN-ACDMY									1882	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		-0.03275	0.00000	401.9	401	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		-0.00000	0.00000	-200.6	-200	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		0.03677	0.00000	0.6	0	
3751	1322.2	6148.4	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	79.8	372.0	0.22098	0.22098	66.7	358
			C:SPRN-ACDMY									1882	
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1		0.03275	0.00000	401.9	401	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1		0.00000	0.00000	-200.6	-200	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1		-0.03677	0.00000	0.6	0	
3752	1332.0	6158.2	L: 126480 RAINEY8E	138	126561 8E DUM	138	1	-34.4	-342.0	-0.23095	-0.23095	-20.9	-328



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3763	1355.8	6182.0*L: 126481 RAINY8W	138	126507 VERNON-W	138	1	71.6	372.0	0.22159	0.22098	66.7	366
		C:SIN:130										
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00316	0.08647	851.6	968
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00316	0.08647	851.6	968
		Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00151	-0.04128	40.5	-15
		Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
		Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4 MW			dispatch			
3769	1361.2	6187.4 L: 126480 RAINY8E	138	126561 8E DUM	138	1	-27.6	-342.0	-0.23095	-0.23095	-20.9	-335
		C:126374 DUN SO1R	138	126385 E179 ST	138	1						
		Open 126374 DUN SO1R	138	126385 E179 ST	138	1			-0.02887	0.00000	234.3	234
3770	1361.3	6187.5 L: 126480 RAINY8E	138	126506 VERNON-E	138	1	27.6	342.0	0.23095	0.23095	20.8	335
		C:126374 DUN SO1R	138	126385 E179 ST	138	1						
		Open 126374 DUN SO1R	138	126385 E179 ST	138	1			0.02887	0.00000	234.3	234
3781	1363.2	6189.4 L: 126480 RAINY8E	138	126561 8E DUM	138	1	-27.0	-342.0	-0.23110	-0.23095	-20.9	-335
		C:SER:W90&W74										
		Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			0.00103	-0.15284	-927.6	-1136
		Open 126342 W74 TAP	345	126368 DUN NO	138	1			-0.01589	-0.00016	322.2	321
		Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			-0.00067	-0.00158	42.9	40
		Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.00321	0.00000	2.6	2
3782	1363.3	6189.5 L: 126480 RAINY8E	138	126506 VERNON-E	138	1	26.9	342.0	0.23110	0.23095	20.8	335
		C:SER:W90&W74										
		Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.00103	-0.15284	-927.6	-1136
		Open 126342 W74 TAP	345	126368 DUN NO	138	1			0.01589	-0.00016	322.2	321
		Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.00067	-0.00158	42.9	40
		Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.00321	0.00000	2.6	2
3790	1364.2	6190.4 L: 126480 RAINY8E	138	126561 8E DUM	138	1	-26.5	-342.0	-0.23128	-0.23095	-20.9	-335
		C:SER:W89&W73										
		Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			0.00106	-0.31583	-1008.1	-1438
		Open 126343 W73 TAP	345	126372 DUN SO	138	1			-0.01332	-0.00016	341.6	341
3792	1364.3	6190.6 L: 126480 RAINY8E	138	126506 VERNON-E	138	1	26.5	342.0	0.23128	0.23095	20.8	335
		C:SER:W89&W73										
		Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.00106	-0.31583	-1008.1	-1439
		Open 126343 W73 TAP	345	126372 DUN SO	138	1			0.01332	-0.00016	341.6	341
3793	1365.0	6191.2*L: 126480 RAINY8E	138	126561 8E DUM	138	1	-25.9	-342.0	-0.23157	-0.23095	-20.9	-336
		C:SIN:120										
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.00326	0.08647	851.6	969
		Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.00326	0.08647	851.6	969
		Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00156	-0.04128	40.5	-15
		Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
		Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
		Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4 MW			dispatch			
3795	1365.1	6191.3*L: 126480 RAINY8E	138	126506 VERNON-E	138	1	25.9	342.0	0.23157	0.23095	20.8	336
		C:SIN:130										

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			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00326	0.08647	851.6	969
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.00156	-0.04128	40.5	-15
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch			
11115	1405.5	6231.7	L: 126295 RAINEY	345	126562	8W DUM	138	8		61.4	372.0	0.22098	
			C:GEN:NYPA_AS						1654				
			Remove unit 1 from bus	147788	POLETGT2		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147789	POLETSTG		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147790	POLETGT1		18.0	155.3	MW	dispatch			
11124	1439.2	6265.4	L: 126295 RAINEY	345	126561	8E DUM	138	8		-82.2	252.0	0.23221	
			Base Case										
11133	1451.5	6277.7	L: 126295 RAINEY	345	126561	8E DUM	138	8		4.9	342.0	0.23221	
			C:GEN:NYPA_AS						1654				
			Remove unit 1 from bus	147788	POLETGT2		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147789	POLETSTG		18.0	155.3	MW	dispatch			
			Remove unit 1 from bus	147790	POLETGT1		18.0	155.3	MW	dispatch			
11158	1493.5	6319.8	L: 126334 ASTE-ERG	138	126445	HG 4	138	1		-133.9	-179.0	-0.03023	
			Base Case										
11159	1496.5	6322.7	L: 126352 ASTE-WRG	138	126442	HG 1	138	1		-133.8	-179.0	-0.03023	
			Base Case										
11160	1517.8	6344.0	L: Interface	14	DUNWOODIE-SO					4826.2	6344.0	1.00000	
			Base Case										
11161	1578.8	6405.0	L: Interface	17	I-TO-J+K					4825.2	6404.0	1.00000	
			Base Case										
11164	1648.8	6475.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3		684.7	1196.0	0.31012	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1467				
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.22137	0.25244	557.4	973
11165	1648.8	6475.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3		684.7	1196.0	0.31012	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	161				
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.22137	0.25244	557.4	973
11166	1648.8	6475.0	L: 126266 DUNWODIE	345	126600	REAC71	345	SR		684.7	1196.0	0.31012	
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1467				
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4		0.22137	0.25244	557.4	973
11167	1648.8	6475.0	L: 126266 DUNWODIE	345	126600	REAC71	345	SR		684.7	1196.0	0.31012	
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	161				
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR		0.22137	0.25244	557.4	973
11170	1661.4	6487.7	L: 126295 RAINEY	345	126562	8W DUM	138	8		3.1	372.0	0.22205	
			C:BUS:GOWANUS_S_345						1727				
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY		-0.00469	-0.07988	239.7	107
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1		0.14234	-0.00000	228.7	228
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1		-0.00000	0.00000	49.7	49
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1		-0.00000	0.00000	44.5	44
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1		-0.00945	-0.07363	522.9	400

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			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			0.00711	0.00000	0.5	0
11171	1662.6	6488.8	L: 126295 RAINEY	345	126562 8W DUM	138	8	2.7	372.0	0.22214	0.22098	-23.4	344
			C:BUS:GOWANUS_N_345										1726
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			-0.00941	-0.00625	40.3	29
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY			-0.01410	-0.08047	239.7	105
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			0.13241	0.00000	230.9	230
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			-0.00941	-0.00000	49.7	49
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			-0.00941	-0.00000	49.7	49
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00231	0.01479	-87.4	-62
11172	1669.9	6496.1	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.22015	0.25424	561.3	985
11173	1669.9	6496.1	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.22015	0.25424	561.3	985
11174	1669.9	6496.1	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.22015	0.25424	561.3	985
11175	1669.9	6496.1	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	681.0	1196.0	0.30841	0.25244	557.4	979
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.22015	0.25424	561.3	985
11176	1701.9	6528.2	L: 126295 RAINEY	345	126561 8E DUM	138	8	-55.1	342.0	0.23331	0.23221	-82.2	313
			C:BUS:GOWANUS_S_345										1727
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY			-0.00479	-0.07988	239.7	103
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1			0.14565	-0.00000	228.7	228
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1			0.00000	0.00000	49.7	49
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1			0.00000	0.00000	44.5	44
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1			-0.00967	-0.07363	522.9	397
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			0.00732	0.00000	0.5	0
11177	1703.1	6529.3	L: 126295 RAINEY	345	126561 8E DUM	138	8	-55.5	342.0	0.23340	0.23221	-82.2	313
			C:BUS:GOWANUS_N_345										1726
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1			-0.00963	-0.00625	40.3	29
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY			-0.01443	-0.08047	239.7	102
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1			0.13549	0.00000	230.9	230
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1			-0.00963	-0.00000	49.7	49
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1			-0.00963	-0.00000	49.7	49
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA					
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			-0.00232	0.01479	-87.4	-62
11178	1713.8	6540.0	L: 126295 RAINEY	345	126562 8W DUM	138	8	-6.7	372.0	0.22098	0.22098	-23.4	355
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1459					
			Open 126298 SPRBROOK		345 126301 TREMONT	345	1			0.03410	0.00000	489.9	489
11179	1714.2	6540.5	L: 126295 RAINEY	345	126562 8W DUM	138	8	-6.8	372.0	0.22098	0.22098	-23.4	355
			C:BUS:TREMONT_345										1734
			Open 126466 SECT 11	138	126470 38X01 T	138	1			0.03410	-0.00002	121.8	121
			Open 126466 SECT 11	138	126471 38X02 T	138	1			0.03410	0.00002	121.8	121

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			Open 126462 PARK TR1	138	126466 SECT 11	138	1			NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1				0.03410	-0.00002	124.0	124		
			Open 126467 SECT 12	138	126473 38X04 T	138	1				0.03410	0.00002	119.6	119		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1			NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1			NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1			NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.00400	0.00000	2.6	2		
11180	1729.9	6556.2	L: 126295 RAINEY	345	126562 8W DUM	138	8				-10.3	372.0	0.22098	0.22098	-23.4	358
			C:SPRN-ACDMY													1882
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				0.03275	0.00000	401.9	401		
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				-0.00000	0.00000	-200.6	-200		
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				-0.03677	0.00000	0.6	0		
11181	1752.8	6579.0	L: 126295 RAINEY	345	126561 8E DUM	138	8				-65.0	342.0	0.23221	0.23221	-82.2	324
			C:126298 SPRBROOK	345	126301 TREMONT	345	1									1459
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.03504	0.00000	489.9	489		
11182	1753.2	6579.5	L: 126295 RAINEY	345	126561 8E DUM	138	8				-65.1	342.0	0.23221	0.23221	-82.2	324
			C:BUS:TREMONT_345													1734
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.03504	-0.00002	121.8	121		
			Open 126466 SECT 11	138	126471 38X02 T	138	1				0.03504	0.00002	121.8	121		
			Open 126462 PARK TR1	138	126466 SECT 11	138	1			NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1				0.03504	-0.00002	124.0	124		
			Open 126467 SECT 12	138	126473 38X04 T	138	1				0.03504	0.00002	119.6	119		
			Open 126463 PARK TR2	138	126467 SECT 12	138	1			NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1			NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1			NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.00412	0.00000	2.6	2		
11183	1759.6	6585.8	L: 126295 RAINEY	345	126562 8W DUM	138	8				-16.8	372.0	0.22098	0.22098	-23.4	365
			C:126374 DUN SO1R	138	126385 E179 ST	138	1									1465
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1				0.02810	0.00000	234.3	234		
11184	1761.4	6587.6	L: 126295 RAINEY	345	126562 8W DUM	138	8				-17.5	372.0	0.22113	0.22098	-23.4	365
			C:SER:W90&W74													1685
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00100	-0.15284	-927.6	-1196		
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01546	-0.00016	322.2	321		
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00065	-0.00158	42.9	40		
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00311	0.00000	2.6	2		
11185	1762.1	6588.3	L: 126295 RAINEY	345	126562 8W DUM	138	8				-18.0	372.0	0.22131	0.22098	-23.4	366
			C:SER:W89&W73													1686
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00103	-0.31583	-1008.1	-1564		
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01296	-0.00016	341.6	341		
11186	1762.4	6588.6	*L: 126295 RAINEY	345	126562 8W DUM	138	8				-18.5	372.0	0.22159	0.22098	-23.4	366
			C:SIN:120													1770
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00316	0.08647	851.6	1004		
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00316	0.08647	851.6	1004		
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00151	-0.04128	40.5	-32		
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA						

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			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345 2	NA						
			Remove unit 1 from bus	147798 IP#3 GEN	22.0	1040.4 MW	dispatch						
11190	1768.5	6594.7	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	666.1	1196.0	0.29965		0.25424	561.3	1010
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR				0.18409	0.24666	569.3	1005
11191	1768.5	6594.7	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	666.1	1196.0	0.29965		0.25424	561.3	1010
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR				0.18409	0.24666	569.3	1005
11193	1768.5	6594.7	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	666.1	1196.0	0.29965		0.25424	561.3	1010
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR				0.18409	0.24666	569.3	1005
11194	1768.5	6594.7	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	666.1	1196.0	0.29965		0.25424	561.3	1010
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR				0.18409	0.24666	569.3	1005
11195	1768.6	6594.8	L: 126295 RAINEY	345	126561 8E DUM	138 8	-68.7	342.0	0.23221		0.23221	-82.2	328
			C:SPRN-ACDMY										
			Open 126298 SPRBROOK	345	126847 ACADEMY	345 1				0.03366	0.00000	401.9	401
			Open 126780 SCK-PARW	138	126847 ACADEMY	345 1				-0.00000	0.00000	-200.6	-200
			Open 126781 SCK-PARE	138	126847 ACADEMY	345 1				-0.03779	0.00000	0.6	0
11198	1770.0	6596.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	665.6	1196.0	0.29965		0.25424	561.3	1011
			C:126304 W 49 ST	345	126518 REACM52	345 2 1462							
			Open 126304 W 49 ST	345	126518 REACM52	345 2				-0.18409	-0.24666	-566.9	-1003
11199	1770.0	6596.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345 3	665.6	1196.0	0.29965		0.25424	561.3	1011
			C:126304 W 49 ST	345	126517 REACM51	345 1 1461							
			Open 126304 W 49 ST	345	126517 REACM51	345 1				-0.18409	-0.24666	-566.9	-1003
11200	1770.0	6596.2	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	665.6	1196.0	0.29965		0.25424	561.3	1011
			C:126304 W 49 ST	345	126517 REACM51	345 1 1461							
			Open 126304 W 49 ST	345	126517 REACM51	345 1				-0.18409	-0.24666	-566.9	-1003
11201	1770.0	6596.2	L: 126266 DUNWODIE	345	126600 REAC71	345 SR	665.6	1196.0	0.29965		0.25424	561.3	1011
			C:126304 W 49 ST	345	126518 REACM52	345 2 1462							
			Open 126304 W 49 ST	345	126518 REACM52	345 2				-0.18409	-0.24666	-566.9	-1003
13023	1796.5	6622.8	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4	661.5	1196.0	0.29753		0.25244	557.4	1010
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR				0.18279	0.24666	569.3	1012
13024	1796.5	6622.8	L: 126601 REAC72	345	126641 MOTT HAVEN	345 4	661.5	1196.0	0.29753		0.25244	557.4	1010
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR				0.18279	0.24666	569.3	1012
13025	1796.5	6622.8	L: 126266 DUNWODIE	345	126601 REAC72	345 SR	661.5	1196.0	0.29753		0.25244	557.4	1010
			C:126298 SPRBROOK	345	126518 REACM52	345 SR 198							
			Open 126298 SPRBROOK	345	126518 REACM52	345 SR				0.18279	0.24666	569.3	1012
13026	1796.5	6622.8	L: 126266 DUNWODIE	345	126601 REAC72	345 SR	661.5	1196.0	0.29753		0.25244	557.4	1010
			C:126298 SPRBROOK	345	126517 REACM51	345 SR 197							
			Open 126298 SPRBROOK	345	126517 REACM51	345 SR				0.18279	0.24666	569.3	1012
13028	1797.6	6623.8	L: 126295 RAINEY	345	126561 8E DUM	138 8	-75.4	342.0	0.23221		0.23221	-82.2	335
			C:126374 DUN SOLR	138	126385 E179 ST	138 1 1465							
			Open 126374 DUN SOLR	138	126385 E179 ST	138 1				0.02887	0.00000	234.3	234

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13029	1798.0	6624.2	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	661.0	1196.0	0.29753	0.25244	557.4	1011
			C:126304 W 49 ST	345	126517	REACM51	345	1						
			Open 126304 W 49 ST	345	126517	REACM51	345	1						
13030	1798.0	6624.2	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	661.0	1196.0	0.29753	0.25244	557.4	1011
			C:126304 W 49 ST	345	126518	REACM52	345	2						
			Open 126304 W 49 ST	345	126518	REACM52	345	2						
13031	1798.0	6624.2	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	661.0	1196.0	0.29753	0.25244	557.4	1011
			C:126304 W 49 ST	345	126517	REACM51	345	1						
			Open 126304 W 49 ST	345	126517	REACM51	345	1						
13032	1798.0	6624.2	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	661.0	1196.0	0.29753	0.25244	557.4	1011
			C:126304 W 49 ST	345	126518	REACM52	345	2						
			Open 126304 W 49 ST	345	126518	REACM52	345	2						
13035	1799.3	6625.5	L: 126295 RAINEY	345	126561	8E DUM	138	8	-76.1	342.0	0.23237	0.23221	-82.2	335
			C:SER:W90&W74											
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1						
			Open 126342 W74 TAP	345	126368	DUN NO	138	1						
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1						
			Open 126293 PL VILLW	345	126305	WOOD A	345	1						
13039	1800.0	6626.2	L: 126295 RAINEY	345	126561	8E DUM	138	8	-76.6	342.0	0.23255	0.23221	-82.2	335
			C:SER:W89&W73											
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1						
			Open 126343 W73 TAP	345	126372	DUN SO	138	1						
13040	1800.2	6626.4	*L: 126295 RAINEY	345	126561	8E DUM	138	8	-77.2	342.0	0.23284	0.23221	-82.2	335
			C:SIN:130											
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2						
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1						
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW						
14900	1934.6	6760.8	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-276.0	-783.0	-0.26208			
			Base Case											
14903	2144.9	6971.1	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	4	-258.3	-783.0	-0.24461			
			Base Case											
14904	2241.5	7067.7	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	626.1	1196.0	0.25424	0.25424	561.3	1131
			C:GEN:SCS AST											
			Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW						
			Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW						
			Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW						
14905	2241.5	7067.7	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	626.1	1196.0	0.25424	0.25424	561.3	1131
			C:GEN:SCS AST											
			Remove unit 1 from bus	126667	SCS18-G1	18.0	200.0	MW						
			Remove unit 1 from bus	126668	SCS18-G2	18.0	200.0	MW						
			Remove unit 1 from bus	126669	SCS18-G3	18.0	220.0	MW						
14906	2274.5	7100.8	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	621.8	1196.0	0.25244	0.25244	557.4	1131





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			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.05091	-0.00000	308.4	308
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.06495	0.00000	2.2	2
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.06495	0.00000	-0.0	-0
14918	2404.6	7230.8	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	589.0	1196.0	0.25244	0.25244	557.4	1164
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05091	-0.00000	620.1	620
14919	2404.6	7230.8	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	589.0	1196.0	0.25244	0.25244	557.4	1164
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.05091	-0.00000	620.1	620
14924	2419.3	7245.5	*L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	585.8	1196.0	0.25224	0.25244	557.4	1168
			C:SIN:360					1784					
			Open 4996 LINDEN	230	126321 GOETHALS	230	1			0.08067	0.00000	333.1	333
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1			0.00015	-0.02452	-64.0	-123
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			0.00284	-0.07192	522.9	348
14925	2419.3	7245.5	*L: 126266 DUNWODIE	345	126601 REAC72	345	SR	585.8	1196.0	0.25224	0.25244	557.4	1168
			C:SIN:360					1784					
			Open 4996 LINDEN	230	126321 GOETHALS	230	1			0.08067	0.00000	333.1	333
			Open 126282 FRESH KILLS	345	126283 GOTHLS N	345	1			0.00015	-0.02452	-64.0	-123
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1			0.00284	-0.07192	522.9	348
18645	2525.6	7351.9	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	684.7	1434.0	0.29668	0.24666	569.3	1192
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.20279	0.24666	569.3	1192
18646	2525.6	7351.9	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	684.7	1434.0	0.29668	0.24666	569.3	1192
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.20279	0.24666	569.3	1192
18740	2527.3	7353.5	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	684.2	1434.0	0.29668	0.24666	569.3	1192
			C:126304 W 49 ST	345	126518 REACM52	345	2	1462					
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.20279	-0.24666	-566.9	-1190
18741	2527.3	7353.5	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	684.2	1434.0	0.29668	0.24666	569.3	1192
			C:126304 W 49 ST	345	126517 REACM51	345	1	1461					
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.20279	-0.24666	-566.9	-1190
21798	2533.6	7359.8	L: 126304 W 49 ST	345	126517 REACM51	345	1	-682.3	-1434.0	-0.29668	-0.24666	-566.9	-1191
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	198					
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			-0.20279	0.24666	569.3	1194
21799	2533.6	7359.8	L: 126304 W 49 ST	345	126518 REACM52	345	2	-682.3	-1434.0	-0.29668	-0.24666	-566.9	-1191
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	197					
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			-0.20279	0.24666	569.3	1194
21844	2535.2	7361.4	L: 126304 W 49 ST	345	126518 REACM52	345	2	-681.9	-1434.0	-0.29668	-0.24666	-566.9	-1192
			C:126304 W 49 ST	345	126517 REACM51	345	1	1461					
			Open 126304 W 49 ST	345	126517 REACM51	345	1			0.20279	-0.24666	-566.9	-1192
21845	2535.2	7361.4	L: 126304 W 49 ST	345	126517 REACM51	345	1	-681.9	-1434.0	-0.29668	-0.24666	-566.9	-1192
			C:126304 W 49 ST	345	126518 REACM52	345	2	1462					
			Open 126304 W 49 ST	345	126518 REACM52	345	2			0.20279	-0.24666	-566.9	-1192
21926	2542.3	7368.5	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1008.1	-1811.0	-0.31583			
			Base Case										
22155	2599.8	7426.0	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1064.3	1935.0	0.33489			

## DunwoodieSouth

Base Case												
22168	2608.9	7435.1	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	670.7	1434.0	0.29259	0.24666	569.3 1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.18066	0.25424	561.3 1224
22169	2608.9	7435.1	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	670.7	1434.0	0.29259	0.24666	569.3 1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			0.18066	0.25424	561.3 1224
22170	2608.9	7435.1	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	670.7	1434.0	0.29259	0.24666	569.3 1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.18066	0.25424	561.3 1224
22171	2608.9	7435.1	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	670.7	1434.0	0.29259	0.24666	569.3 1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			0.18066	0.25424	561.3 1224
22180	2615.4	7441.6	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	669.8	1434.0	0.29219	0.24666	569.3 1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467					
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			0.18037	0.25244	557.4 1217
22181	2615.4	7441.6	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	669.8	1434.0	0.29219	0.24666	569.3 1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467					
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			0.18037	0.25244	557.4 1217
22182	2615.4	7441.6	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	669.8	1434.0	0.29219	0.24666	569.3 1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161					
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			0.18037	0.25244	557.4 1217
22183	2615.4	7441.6	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	669.8	1434.0	0.29219	0.24666	569.3 1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161					
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			0.18037	0.25244	557.4 1217
22184	2617.0	7443.2	L: 126304 W 49 ST	345	126517 REACM51	345	1	-668.3	-1434.0	-0.29259	-0.24666	-566.9 -1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			-0.18066	0.25424	561.3 1226
22185	2617.0	7443.2	L: 126304 W 49 ST	345	126518 REACM52	345	2	-668.3	-1434.0	-0.29259	-0.24666	-566.9 -1212
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3 1466					
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3			-0.18066	0.25424	561.3 1226
22186	2617.0	7443.2	L: 126304 W 49 ST	345	126517 REACM51	345	1	-668.3	-1434.0	-0.29259	-0.24666	-566.9 -1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			-0.18066	0.25424	561.3 1226
22187	2617.0	7443.2	L: 126304 W 49 ST	345	126518 REACM52	345	2	-668.3	-1434.0	-0.29259	-0.24666	-566.9 -1212
			C:126266 DUNWODIE	345	126600 REAC71	345	SR 160					
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR			-0.18066	0.25424	561.3 1226
22198	2623.5	7449.7	L: 126304 W 49 ST	345	126517 REACM51	345	1	-667.4	-1434.0	-0.29219	-0.24666	-566.9 -1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467					
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			-0.18037	0.25244	557.4 1219
22199	2623.5	7449.7	L: 126304 W 49 ST	345	126517 REACM51	345	1	-667.4	-1434.0	-0.29219	-0.24666	-566.9 -1214
			C:126266 DUNWODIE	345	126601 REAC72	345	SR 161					
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR			-0.18037	0.25244	557.4 1219
22200	2623.5	7449.7	L: 126304 W 49 ST	345	126518 REACM52	345	2	-667.4	-1434.0	-0.29219	-0.24666	-566.9 -1214
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4 1467					
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4			-0.18037	0.25244	557.4 1219

## DunwoodieSouth

22201	2623.5	7449.7	L: 126304 W 49 ST	345	126518	REACM52	345	2	-667.4	-1434.0	-0.29219	-0.24666	-566.9	-1214
			C:126266 DUNWODIE	345	126601	REAC72	345	SR 161						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR				-0.18037	0.25244	557.4 1219
22208	2628.8	7455.0	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-384.0	-1196.0	-0.30889	-0.26208	-276.0	-964
			C:126298 SPRBROOK	345	126518	REACM52	345	SR 198						
			Open 126298 SPRBROOK	345	126518	REACM52	345	SR				-0.18977	0.24666	569.3 1217
22209	2628.8	7455.0	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-384.0	-1196.0	-0.30889	-0.26208	-276.0	-964
			C:126298 SPRBROOK	345	126517	REACM51	345	SR 197						
			Open 126298 SPRBROOK	345	126517	REACM51	345	SR				-0.18977	0.24666	569.3 1217
22210	2630.2	7456.4	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-383.6	-1196.0	-0.30889	-0.26208	-276.0	-965
			C:126304 W 49 ST	345	126518	REACM52	345	2 1462						
			Open 126304 W 49 ST	345	126518	REACM52	345	2				0.18977	-0.24666	-566.9 -1215
22211	2630.2	7456.4	L: 126295 RAINEY	345	126641	MOTT HAVEN	345	3	-383.6	-1196.0	-0.30889	-0.26208	-276.0	-965
			C:126304 W 49 ST	345	126517	REACM51	345	1 1461						
			Open 126304 W 49 ST	345	126517	REACM51	345	1				0.18977	-0.24666	-566.9 -1215
22318	2818.5	7644.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-420.8	-1120.0	-0.24808	-0.24808	-414.4	-1113
			C:SIN:250					1780						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0 -0
			Remove unit 3 from bus	103563	MILL#3		24.0	1276.0 MW						
22319	2823.2	7649.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114
			C:SIN:130					1771						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00000	0.08647	851.6 1095
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.00000	0.08647	851.6 1095
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00000	-0.04128	40.5 -76
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA
			Remove unit 1 from bus	147798	IP#3 GEN		22.0	1040.4 MW						dispatch
22320	2823.2	7649.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4	-1114
			C:SIN:120					1770						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1				0.00000	0.08647	851.6 1095
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2				0.00000	0.08647	851.6 1095
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1				0.00000	-0.04128	40.5 -76
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1						NA
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2						NA
			Remove unit 1 from bus	147798	IP#3 GEN		22.0	1040.4 MW						dispatch
22325	2840.4	7666.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:SEABROOK					1675						
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0 MW						dispatch
22326	2840.4	7666.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:SEAB&OMS					1677						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0 -0
			Remove unit 1 from bus	102869	SBRK G1		25.0	1318.0 MW						dispatch
22327	2840.5	7666.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.3	-1120.0	-0.24808	-0.24808	-414.4	-1119
			C:GEN:MLS3&OMS					1676						

ItoK

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, JAN 20 2012 22:45  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-LIPA-Import.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 32673  
 First violation - -185.3 MW.

Study transfer. From I\_EXPORT To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 32673 violations

Interface-1 Interface 55 I-to-K Init.Flow= 1279.63 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	__Ncon	Flow	Rating	LODF	Init Final
1	-185.3	1094.3	L: Interface 78 LIPA Export Base Case	-2901.3	-2716.0	-1.00000		
2	-124.1	1155.5	L: Interface 19 LIPA IMPORT Base Case	2900.1	2776.0	1.00000		
3	13.1	1292.7	L: 126266 DUNWODIE 345 128835 SHORE RD 345 1 Base Case	639.9	653.0	1.00000		
4	81.4	1361.0	L: Interface 56 K-to-I Base Case	-1279.6	-1361.0	-1.00000		
5	81.4	1361.0	L: Interface 55 I-to-K Base Case	1279.6	1361.0	1.00000		
6	142.5	1422.2	L: Interface 15 I-to-K Base Case	1278.5	1421.0	1.00000		
7	205.7	1485.3	L: 129283 GLNWD SO 138 129588 GLNWD SO 69.0 1 Base Case	108.2	118.0	0.04758		
8	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:147839 MOSES E 230 155072 STLAWL33 230 1 1481 Open 147839 MOSES E 230 155072 STLAWL33 230 1	85.3	300.0	1.00000	1.00000	85.3 300.0
9	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:130835 N.END115 115 131021 ROBBL115 115 1 410 Open 130835 N.END115 115 131021 ROBBL115 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
10	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:136204 HARRIS 115 136246 TILDEN 115 1 896 Open 136204 HARRIS 115 136246 TILDEN 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
11	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:135285 MCHS-152 115 135295 SPVL-152 115 1 555 Open 135285 MCHS-152 115 135295 SPVL-152 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
12	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:SER:ESEB/WRFL 1716 Open 270 ERIE SO. 230 531 ERIE SE 230 1 Open 531 ERIE SE 230 200654 ERIE E 230 1 Open 135277 FALCONER 115 200579 WARREN 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
13	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:137853 MALTATPS 115 137863 BALSTN E 115 1 1209 Open 137853 MALTATPS 115 137863 BALSTN E 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
14	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:136205 HDSN-10 115 136229 PEAT-10 115 1 897 Open 136205 HDSN-10 115 136229 PEAT-10 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
15	214.7	1494.3	L: 120801 STARS-00901 13.8 126292 PL VILLE 345 01 C:135294 SPVL-151 115 147875 ARCADE 115 1 561 Open 135294 SPVL-151 115 147875 ARCADE 115 1	85.3	300.0	1.00000	1.00000	85.3 300.0
				0.00000	0.00000		10.0	10.0

ItoK

16	214.7	1494.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000	1.00000	85.3	300.0
			C:149018 S71 115	115	149035 S69 917	115	1	1419					
			Open 149018 S71 115	115	149035 S69 917	115	1			0.00000	-0.00000	-4.1	-4.1
17	214.7	1494.3	*L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000	1.00000	85.3	300.0
			C:149000 ROCH 345	345	149019 S80 1TR	115	1	1388					
			Open 149000 ROCH 345	345	149019 S80 1TR	115	1			0.00000	0.00000	174.3	174.3
1483	214.7	1494.3	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000			
			Base Case										
1867	324.7	1604.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	319.3	482.0	0.50089			
			Base Case										
1868	328.2	1607.8	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	318.2	482.0	0.49911			
			Base Case										
1869	407.2	1686.9	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	360.4	406.0	0.11210	0.00000	288.6	288.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.11210	1.00000	639.9	1047.1
1870	407.2	1686.9	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	360.4	406.0	0.11210	0.00000	288.6	288.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.11210	1.00000	639.9	1047.1
1871	408.9	1688.6	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	469.1	770.0	0.73578	0.50089	319.3	524.2
			C:128835 SHORE RD	345	129293 SHORE RD	138	2	1491					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.47062	0.49911	318.2	522.3
1872	409.8	1689.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	360.1	406.0	0.11210	0.00000	288.6	288.6
			C:BUS:SHORE_RD_345					1727					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.11210	0.50089	319.3	524.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.11210	0.49911	318.2	522.8
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01268	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01268	0.00000	-0.0	-0.0
1873	409.8	1689.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	360.1	406.0	0.11210	0.00000	288.6	288.6
			C:BUS:SHORE_RD_345					1727					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.11210	0.50089	319.3	524.6
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.11210	0.49911	318.2	522.8
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01268	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01268	0.00000	-0.0	-0.0
1874	410.9	1690.5	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	468.2	770.0	0.73439	0.49911	318.2	523.3
			C:128835 SHORE RD	345	129293 SHORE RD	138	1	1490					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46973	0.50089	319.3	525.2
1875	413.8	1693.4	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	92.8	118.0	0.06095			
			Base Case										
1876	476.9	1756.5	L: Interface	20	LI SUM			1454.1	1931.0	1.00000			
			Base Case										
1877	516.9	1796.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-195.2	-379.0	-0.35563	-0.35563	-44.7	-228.5
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	199					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.23526	-0.00000	639.7	639.7
1878	517.0	1796.7	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	195.1	379.0	0.35563	0.35563	44.6	228.5
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	199					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.23526	-0.00000	639.7	639.7
1879	517.7	1797.3	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.9	-379.0	-0.35563	-0.35563	-44.7	-228.8
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.23526	0.00000	-638.5	-638.5
1880	517.8	1797.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.8	379.0	0.35563	0.35563	44.6	228.8
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.23526	0.00000	-638.5	-638.5
1881	518.8	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.5	-379.0	-0.35563	-0.35563	-44.7	-229.2
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.23526	0.00000	-636.8	-636.8
1882	518.8	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.5	-379.0	-0.35563	-0.35563	-44.7	-229.2
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.23526	-0.00000	636.8	636.8
1883	518.8	1798.5	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.5	-379.0	-0.35563	-0.35563	-44.7	-229.2
			C:SPRN-BRK-345					1884					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.23493	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						

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				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA								
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		0.22600	0.00000	4.5	4.5				
1884	518.8	1798.5	L:	129281 GLNWD GT	138	129282 GLNWD NO	138	1		-194.5	-379.0	-0.35563		-0.35563	-44.7	-229.2	
				C:BUS:EGC_345				1728									
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA								
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		-0.23493	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA								
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA								
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		0.22600	0.00000	4.5	4.5				
1885	519.0	1798.6	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		194.4	379.0	0.35563		0.35563	44.6	229.2	
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489								
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		-0.23526	0.00000	-636.8	-636.8				
1886	519.0	1798.6	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		194.4	379.0	0.35563		0.35563	44.6	229.2	
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1		0.23526	-0.00000	636.8	636.8				
1887	519.0	1798.6	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		194.4	379.0	0.35563		0.35563	44.6	229.2	
				C:BUS:EGC_345				1728									
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA								
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		0.23493	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA								
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA								
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		-0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-0.22600	0.00000	4.5	4.5				
1888	519.0	1798.6	L:	129281 GLNWD GT	138	129288 ROSLYN	138	1		194.4	379.0	0.35563		0.35563	44.6	229.2	
				C:SPRN-BRK-345				1884									
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		0.23493	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA								
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA								
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA								
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		-0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-0.22600	0.00000	4.5	4.5				
1889	525.0	1804.7	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1		275.8	428.0	0.28989		0.00000	90.3	90.3	
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458								
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.28989	1.00000	639.9	1164.9				
1890	527.4	1807.1	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1		275.1	428.0	0.28989		0.00000	90.3	90.3	
				C:BUS:SHORE_RD_345				1727									
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.28989	0.50089	319.3	583.5				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.28989	0.49911	318.2	581.5				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.00513	0.00000	2.4	2.4				
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		-0.00513	0.00000	-0.0	-0.0				
1891	529.2	1808.9	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		982.8	1512.0	1.00000		1.00000	639.9	1169.1	
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	199								
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1		0.53595	-0.00000	639.7	639.7				
1892	529.9	1809.5	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		982.1	1512.0	1.00000		1.00000	639.9	1169.8	
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468								
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		-0.53595	0.00000	-638.5	-638.5				
1893	530.7	1810.4	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		981.3	1512.0	1.00000		1.00000	639.9	1170.7	
				C:SPRN-BRK-345				1884									
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY		0.53572	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA								
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA								
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA								
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA								
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1		-0.00047	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-0.50097	0.00000	4.5	4.5				
1894	530.7	1810.4	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		981.3	1512.0	1.00000		1.00000	639.9	1170.7	
				C:BUS:EGC_345				1728									

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			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA									
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		0.53572	-0.00000	641.1	641.1					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA									
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA									
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA									
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-0.00047	0.00000	-318.2	-318.2					
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		-0.50097	0.00000	4.5	4.5					
1895	530.8	1810.4	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	981.2	1512.0	1.00000	1.00000	639.9	1170.7				
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1489									
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		-0.53595	0.00000	-636.8	-636.8					
1896	530.8	1810.4	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	981.2	1512.0	1.00000	1.00000	639.9	1170.7				
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1488									
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		0.53595	-0.00000	636.8	636.8					
1897	535.8	1815.4	L: 126280 FARRAGUT TX9	345	126437	FGT_X9	138	1	175.9	216.0	0.07477	-0.00000	128.1	128.1				
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1458									
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.07477	1.00000	639.9	1175.7					
1898	538.4	1818.1	L: 126280 FARRAGUT TX9	345	126437	FGT_X9	138	1	175.7	216.0	0.07477	-0.00000	128.1	128.1				
			C:BUS:SHORE_RD_345					1727										
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		0.07477	0.50089	319.3	589.0					
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		0.07477	0.49911	318.2	587.0					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		-0.00845	0.00000	2.4	2.4					
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		-0.00845	0.00000	-0.0	-0.0					
1899	551.7	1831.3	L: 126277 FARRAGUT	345	126451	FGT_X8	138	1	174.8	216.0	0.07475	-0.00000	126.9	126.9				
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1458									
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.07475	1.00000	639.9	1191.6					
1900	552.9	1832.5	L: 126277 FARRAGUT	345	126436	FGT_X10	138	1	174.7	216.0	0.07468	-0.00000	126.9	126.9				
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1458									
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.07468	1.00000	639.9	1192.8					
1901	554.3	1833.9	L: 126277 FARRAGUT	345	126451	FGT_X8	138	1	174.6	216.0	0.07475	-0.00000	126.9	126.9				
			C:BUS:SHORE_RD_345					1727										
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		0.07475	0.50089	319.3	597.0					
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		0.07475	0.49911	318.2	594.9					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		-0.00845	0.00000	2.4	2.4					
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		-0.00845	0.00000	-0.0	-0.0					
1902	555.5	1835.1	L: 126277 FARRAGUT	345	126436	FGT_X10	138	1	174.5	216.0	0.07468	-0.00000	126.9	126.9				
			C:BUS:SHORE_RD_345					1727										
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		0.07468	0.50089	319.3	597.6					
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		0.07468	0.49911	318.2	595.5					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		-0.00844	0.00000	2.4	2.4					
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		-0.00844	0.00000	-0.0	-0.0					
1903	556.9	1836.5	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	491.1	770.0	0.50089	0.50089	319.3	598.3				
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	199									
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		0.26845	-0.00000	639.7	639.7					
1904	557.5	1837.1	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.8	770.0	0.50089	0.50089	319.3	598.6				
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1468									
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		-0.26845	0.00000	-638.5	-638.5					
1905	557.7	1837.4	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.7	-339.0	-0.35563	-0.35563	9.8	-188.5				
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	199									
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		-0.23526	-0.00000	639.7	639.7					
1906	558.4	1838.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.0				
			C:BUS:EGC_345					1728										
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA									
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		0.26833	-0.00000	641.1	641.1					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA									
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA									
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA									
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-0.00023	0.00000	-318.2	-318.2					
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		-0.25093	0.00000	4.5	4.5					
1907	558.4	1838.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.0				
			C:SPRN-BRK-345					1884										
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		0.26833	-0.00000	641.1	641.1					
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA									
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA									



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				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00023	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.25093	0.00000	4.5	4.5				
1908	558.4	1838.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	490.3	770.0	0.50089		0.50089	319.3	599.1				
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.26845	0.00000	-636.8	-636.8				
1909	558.4	1838.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	1	490.3	770.0	0.50089		0.50089	319.3	599.1				
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.26845	-0.00000	636.8	636.8				
1910	558.5	1838.1	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-140.4	-339.0	-0.35563		-0.35563	9.8	-188.8				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.23526	0.00000	-638.5	-638.5				
1911	559.7	1839.3	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-140.0	-339.0	-0.35563		-0.35563	9.8	-189.2				
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.23526	0.00000	-636.8	-636.8				
1912	559.7	1839.3	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-140.0	-339.0	-0.35563		-0.35563	9.8	-189.2				
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.23526	-0.00000	636.8	636.8				
1913	559.7	1839.3	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-140.0	-339.0	-0.35563		-0.35563	9.8	-189.2				
				C:SPRN-BRK-345					1884										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23493	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22600	0.00000	4.5	4.5				
1914	559.7	1839.3	L:	129270 E.G.C.	138	129288 ROSLYN	138	1	-140.0	-339.0	-0.35563		-0.35563	9.8	-189.2				
				C:BUS:EGC_345					1728										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23493	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00067	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22600	0.00000	4.5	4.5				
1915	562.3	1842.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	489.3	770.0	0.49911		0.49911	318.2	598.9				
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	199										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.26750	-0.00000	639.7	639.7				
1916	563.0	1842.6	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	489.0	770.0	0.49911		0.49911	318.2	599.2				
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.26750	0.00000	-638.5	-638.5				
1917	563.8	1843.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.6				
				C:SPRN-BRK-345					1884										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26738	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00023	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.25004	0.00000	4.5	4.5				
1918	563.8	1843.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.6				
				C:BUS:EGC_345					1728										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26738	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00023	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.25004	0.00000	4.5	4.5				
1919	563.9	1843.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.7				
				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										





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				C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										
				Open 128824 EGC DUM		345 128830 HMP HRBR	345	1											
1961	747.7	2027.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		79.4	339.0	0.34717		0.34717		-636.8	-636.8		
				C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488										
				Open 128824 EGC DUM		345 128825 EGC PAR	345	1											
1962	747.8	2027.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		79.4	339.0	0.34717		0.34717		-66.7	192.9		
				C:SPRN-BRK-345					1884										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.22919	-0.00000	641.1	641.1		
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1								-0.00065	0.00000	-318.2	-318.2
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1								-0.22048	0.00000	4.5	4.5
1963	747.8	2027.4	L:	129265 CARLE PL	138	129270 E.G.C.	138	1		79.4	339.0	0.34717		0.34717		-66.7	192.9		
				C:BUS:EGC_345					1728										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						0.22919	-0.00000	641.1	641.1		
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1								-0.00065	0.00000	-318.2	-318.2
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1								-0.22048	0.00000	4.5	4.5
1964	753.8	2033.4	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		758.2	1512.0	1.00000		1.00000		639.9	1393.7		
				C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1484										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1								-0.37168	0.00000	-318.2	-318.2
1965	753.8	2033.4	*L:	126266 DUNWODIE	345	128835 SHORE RD	345	1		758.2	1512.0	1.00000		1.00000		639.9	1393.7		
				C:128822 E.G.C.-1	345	129270 E.G.C.	138	1	1485										
				Open 128822 E.G.C.-1	345	129270 E.G.C.	138	1								0.37168	0.00000	318.2	318.2
1968	759.9	2039.5	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1		-33.2	-297.0	-0.34717							
				Base Case															
1969	762.5	2042.1	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-195.3	-636.0	-0.57797		-0.41657		-137.5	-455.1		
				C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525										
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1								0.40887	-0.39475	-141.4	-442.4
1970	767.2	2046.8	L:	129270 E.G.C.	138	129288 ROSLYN	138	1		9.8	-263.0	-0.35563							
				Base Case															
1971	773.6	2053.3	*L:	129270 E.G.C.	138	129288 ROSLYN	138	1		34.2	-339.0	-0.48242		-0.35563		9.8	-265.3		
				C:129265 CARLE PL	138	129270 E.G.C.	138	1	1513										
				Open 129265 CARLE PL	138	129270 E.G.C.	138	1								-0.36521	0.34717	-66.7	201.8
1973	780.4	2060.0	L:	129343 NRTHPT P	138	129344 NRTHPT1	138	1		550.0	675.0	0.16013		0.00000		447.6	447.6		
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1								0.16013	1.00000	639.9	1420.3
1974	781.4	2061.1	*L:	128835 SHORE RD	345	129293 SHORE RD	138	1		378.6	770.0	0.50089		0.50089		319.3	710.8		
				C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1484										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1								-0.18617	0.00000	-318.2	-318.2
1978	783.0	2062.6	L:	129343 NRTHPT P	138	129344 NRTHPT1	138	1		549.6	675.0	0.16013		0.00000		447.6	447.6		
				C:BUS:SHORE_RD_345					1727										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1								0.16013	0.50089	319.3	711.6
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2								0.16013	0.49911	318.2	709.0
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1								-0.02030	0.00000	2.4	2.4
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1								-0.02030	0.00000	-0.0	-0.0
1979	784.0	2063.6	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-196.3	-636.0	-0.56092		-0.39475		-141.4	-450.9		
				C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1524										
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1								0.39889	-0.41657	-137.5	-464.1
1981	786.9	2066.5	*L:	128835 SHORE RD	345	129293 SHORE RD	138	2		377.2	770.0	0.49911		0.49911		318.2	711.0		
				C:128822 E.G.C.-1	345	128825 EGC PAR	345	1	1484										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1								-0.18551	0.00000	-318.2	-318.2
1993	795.7	2075.3	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-304.5	-636.0	-0.41657		-0.41657		-137.5	-469.0		
				C:126299 REACBUS	345	147857 DVNPT NK	345	1	199										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1								-0.26113	-0.00000	639.7	639.7
1994	796.4	2076.1	L:	129282 GLNWD NO	138	129293 SHORE RD	138	1		-304.2	-636.0	-0.41657		-0.41657		-137.5	-469.3		
				C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1								0.26113	0.00000	-638.5	-638.5

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1995	796.9	2076.5	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	89.9	114.0	0.03024				
			Base Case											
1996	797.5	2077.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.26113	0.00000	-636.8	-636.8
1997	797.5	2077.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.26113	-0.00000	636.8	636.8
1998	797.6	2077.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:BUS:EGC_345					1728						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.26084	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00058	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.25057	0.00000	4.5	4.5
1999	797.6	2077.2	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:SPRN-BRK-345					1884						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.26084	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00058	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.25057	0.00000	4.5	4.5
2003	807.8	2087.5	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	120.2	165.0	0.05545	0.04758	108.2	146.6	
			C:129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	1630						
			Open 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1				0.12921	0.06095	92.8	142.0
2011	820.8	2100.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-50.7	339.0	0.47481	0.34717	-66.7	218.2	
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1522						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				-0.35893	-0.35563	-44.7	-336.6
2012	820.8	2100.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-50.7	339.0	0.47481	0.34717	-66.7	218.2	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1523						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				0.35893	0.35563	44.6	336.5
2019	830.0	2109.7	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	108.6	165.0	0.06792	0.06095	92.8	143.4	
			C:129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	1631						
			Open 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1				0.14643	0.04758	108.2	147.7
2059	847.8	2127.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-301.3	-636.0	-0.39475	-0.39475	-141.4	-476.1	
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	199						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.24997	-0.00000	639.7	639.7
2061	848.6	2128.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-301.0	-636.0	-0.39475	-0.39475	-141.4	-476.4	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.24997	0.00000	-638.5	-638.5
2062	849.7	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.24997	0.00000	-636.8	-636.8
2063	849.7	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.24997	-0.00000	636.8	636.8
2064	849.7	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8	
			C:BUS:EGC_345					1728						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.24968	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00057	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.23987	0.00000	4.5	4.5
2065	849.7	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8	
			C:SPRN-BRK-345					1884						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.24968	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						

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				Open 128830 HMP HRBR	345	147857	DVNPT	NK	345	1	NA						
				Open 128824 EGC DUM	345	128830	HMP	HRBR	345	1	NA						
				Open 128824 EGC DUM	345	128825	EGC	PAR	345	1	NA						
				Open 128822 E.G.C.-1	345	128825	EGC	PAR	345	1		0.00057	0.00000	-318.2	-318.2		
				Open 128823 E.G.C.-2	345	128825	EGC	PAR	345	1		0.23987	0.00000	4.5	4.5		
2086	859.8	2139.4	L:	129282 GLNWD NO	138	129587	GLNWD	NO	69.0	1	95.3	165.0	0.08106		0.06095	92.8	145.2
			C:	129281 GLNWD GT	138	129282	GLNWD	NO	138	1	1522						
				Open 129281 GLNWD GT	138	129282	GLNWD	NO	138	1				-0.05655	-0.35563	-44.7	-350.4
2087	859.8	2139.5	L:	129282 GLNWD NO	138	129587	GLNWD	NO	69.0	1	95.3	165.0	0.08106		0.06095	92.8	145.2
			C:	129281 GLNWD GT	138	129288	ROSLYN		138	1	1523						
				Open 129281 GLNWD GT	138	129288	ROSLYN		138	1				0.05655	0.35563	44.6	350.4
2098	862.0	2141.6	*L:	129265 CARLE PL	138	129270	E.G.C.		138	1	-70.3	339.0	0.47481		0.34717	-66.7	232.5
			C:	129270 E.G.C.	138	129288	ROSLYN		138	1	1516						
				Open 129270 E.G.C.	138	129288	ROSLYN		138	1				-0.35893	-0.35563	9.8	-296.7
2106	863.0	2142.7	L:	129282 GLNWD NO	138	129293	SHORE	RD	138	1	-137.5	-497.0	-0.41657				
				Base Case													
2151	868.7	2148.3	L:	129282 GLNWD NO	138	129293	SHORE	RD	138	1	-151.0	-636.0	-0.55826		-0.41657	-137.5	-499.4
			C:	129265 CARLE PL	138	129283	GLNWD	SO	138	1	1514						
				Open 129265 CARLE PL	138	129283	GLNWD	SO	138	1				0.40812	-0.34717	-33.2	-334.8
3769	872.6	2152.2	L:	129283 GLNWD SO	138	129588	GLNWD	SO	69.0	1	109.7	165.0	0.06335		0.04758	108.2	149.7
			C:	129265 CARLE PL	138	129283	GLNWD	SO	138	1	1514						
				Open 129265 CARLE PL	138	129283	GLNWD	SO	138	1				-0.04543	-0.34717	-33.2	-336.1
3869	876.9	2156.6	L:	128822 E.G.C.-1	345	128825	EGC	PAR	345	1	-468.7	-675.0	-0.23523		0.00000	-318.2	-318.2
			C:	126266 DUNWODIE	345	128835	SHORE	RD	345	1	1458						
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				-0.23523	1.00000	639.9	1516.9
3870	877.0	2156.6	L:	128822 E.G.C.-1	345	129270	E.G.C.		138	1	468.7	675.0	0.23523		0.00000	318.2	318.2
			C:	126266 DUNWODIE	345	128835	SHORE	RD	345	1	1458						
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				0.23523	1.00000	639.9	1516.9
3890	879.1	2158.8	L:	128822 E.G.C.-1	345	128825	EGC	PAR	345	1	-468.2	-675.0	-0.23523		0.00000	-318.2	-318.2
			C:	BUS:SHORE_RD_345							1727						
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	1				-0.23523	0.50089	319.3	759.7
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	2				-0.23523	0.49911	318.2	757.0
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				-0.01550	0.00000	2.4	2.4
				Open 150 DUNWD SW	345	126266	DUNWODIE		345	1				-0.01550	0.00000	-0.0	-0.0
3891	879.2	2158.8	L:	128822 E.G.C.-1	345	129270	E.G.C.		138	1	468.2	675.0	0.23523		0.00000	318.2	318.2
			C:	BUS:SHORE_RD_345							1727						
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	1				0.23523	0.50089	319.3	759.7
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	2				0.23523	0.49911	318.2	757.0
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				0.01550	0.00000	2.4	2.4
				Open 150 DUNWD SW	345	126266	DUNWODIE		345	1				0.01550	0.00000	-0.0	-0.0
3943	889.3	2168.9	L:	128823 E.G.C.-2	345	128825	EGC	PAR	345	1	-467.6	-675.0	-0.23319		0.00000	-318.4	-318.4
			C:	126266 DUNWODIE	345	128835	SHORE	RD	345	1	1458						
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				-0.23319	1.00000	639.9	1529.2
3956	890.2	2169.8	L:	128823 E.G.C.-2	345	129271	E.G.C.-2		138	1	467.4	675.0	0.23319		0.00000	318.2	318.2
			C:	126266 DUNWODIE	345	128835	SHORE	RD	345	1	1458						
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				0.23319	1.00000	639.9	1530.1
3967	891.5	2171.1	L:	128823 E.G.C.-2	345	128825	EGC	PAR	345	1	-467.1	-675.0	-0.23319		0.00000	-318.4	-318.4
			C:	BUS:SHORE_RD_345							1727						
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	1				-0.23319	0.50089	319.3	765.9
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	2				-0.23319	0.49911	318.2	763.2
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				-0.01540	0.00000	2.4	2.4
				Open 150 DUNWD SW	345	126266	DUNWODIE		345	1				-0.01540	0.00000	-0.0	-0.0
3977	892.3	2171.9	L:	129283 GLNWD SO	138	129293	SHORE	RD	138	1	-159.0	-636.0	-0.53461		-0.39475	-141.4	-493.6
			C:	129281 GLNWD GT	138	129282	GLNWD	NO	138	1	1522						
				Open 129281 GLNWD GT	138	129282	GLNWD	NO	138	1				0.39328	-0.35563	-44.7	-362.0
3980	892.3	2171.9	L:	129283 GLNWD SO	138	129293	SHORE	RD	138	1	-159.0	-636.0	-0.53461		-0.39475	-141.4	-493.7
			C:	129281 GLNWD GT	138	129288	ROSLYN		138	1	1523						
				Open 129281 GLNWD GT	138	129288	ROSLYN		138	1				-0.39328	0.35563	44.6	362.0
3983	892.4	2172.0	L:	128823 E.G.C.-2	345	129271	E.G.C.-2		138	1	466.9	675.0	0.23319		0.00000	318.2	318.2
			C:	BUS:SHORE_RD_345							1727						
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	1				0.23319	0.50089	319.3	766.3
				Open 128835 SHORE RD	345	129293	SHORE	RD	138	2				0.23319	0.49911	318.2	763.6
				Open 126266 DUNWODIE	345	128835	SHORE	RD	345	1				0.01540	0.00000	2.4	2.4

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			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1		0.01540	0.00000	-0.0	-0.0		
4044	897.8	2177.4	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	92.2	165.0	0.08106	0.06095	92.8	147.5	
			C:	129270	E.G.C.	138	129288	ROSLYN	138	1							
			Open	129270	E.G.C.	138	129288	ROSLYN	138	1							
5686	900.8	2180.4	L:	129283	GLNWD SO	138	129293	SHORE RD	138	1	-141.4	-497.0	-0.39475	-0.05655	-0.35563	9.8	-309.4
			Base Case														
7438	907.4	2187.0	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	118.1	165.0	0.05172	0.04758	108.2	151.4	
			C:	129248	L SUCS	138	129543	LKE SCSS	69.0	1	1627						
			Open	129248	L SUCS	138	129543	LKE SCSS	69.0	1				0.06518	0.06354	151.2	208.9
7518	913.4	2193.1	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5	
			C:	126299	REACBUS	345	147857	DVNPT NK	345	1	199						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1				0.02587	-0.00000	639.7	639.7
7529	913.9	2193.5	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5	
			C:	128830	HMP HRBR	345	147857	DVNPT NK	345	1	1468						
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1				-0.02587	0.00000	-638.5	-638.5
7536	914.7	2194.3	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5	
			C:	BUS:EGC_345							1728						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY				0.02591	-0.00000	641.1	641.1
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1				0.00009	0.00000	-318.2	-318.2
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1				-0.02458	0.00000	4.5	4.5
7537	914.7	2194.3	L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5	
			C:	SPRN-BRK-345							1884						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY				0.02591	-0.00000	641.1	641.1
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1				0.00009	0.00000	-318.2	-318.2
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1				-0.02458	0.00000	4.5	4.5
7538	914.7	2194.3	*L:	129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5	
			C:	128824	EGC DUM	345	128830	HMP HRBR	345	1	1489						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1				-0.02587	0.00000	-636.8	-636.8
7568	918.5	2198.2	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	121.3	165.0	0.04758	0.04758	108.2	151.9	
			C:	126299	REACBUS	345	147857	DVNPT NK	345	1	199						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1				0.02045	-0.00000	639.7	639.7
7573	919.0	2198.7	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	121.3	165.0	0.04758	0.04758	108.2	151.9	
			C:	128830	HMP HRBR	345	147857	DVNPT NK	345	1	1468						
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1				-0.02045	0.00000	-638.5	-638.5
7581	919.8	2199.4	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:	BUS:EGC_345							1728						
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY				0.02049	-0.00000	641.1	641.1
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1				0.00008	0.00000	-318.2	-318.2
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1				-0.01939	0.00000	4.5	4.5
7582	919.8	2199.4	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:	SPRN-BRK-345							1884						
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY				0.02049	-0.00000	641.1	641.1
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1				0.00008	0.00000	-318.2	-318.2
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1				-0.01939	0.00000	4.5	4.5
7583	919.8	2199.4	L:	129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:	128824	EGC DUM	345	128830	HMP HRBR	345	1	1489						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1				-0.02045	0.00000	-636.8	-636.8

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7584	919.8	2199.4	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488					
			Open 128824 EGC DUM		345	128825 EGC PAR	345	1		0.02045	-0.00000	636.8	636.8
7635	932.4	2212.0	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-137.5	-636.0	-0.53461	-0.39475	-141.4	-509.5
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1516					
			Open 129270 E.G.C.		138	129288 ROSLYN	138	1		0.39328	-0.35563	9.8	-321.7
11008	941.8	2221.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-110.2	-636.0	-0.55826	-0.41657	-137.5	-529.8
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1513					
			Open 129265 CARLE PL		138	129270 E.G.C.	138	1		-0.40812	0.34717	-66.7	260.2
11191	949.8	2229.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-66.7	263.0	0.34717			
			Base Case										
11214	952.8	2232.4	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-239.1	-636.0	-0.41657	-0.41657	-137.5	-534.4
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
			Open 128842 NEPTCONV		345	128847 NWBRG	345	1		0.15390	0.00000	-660.2	-660.2
11375	979.8	2259.5	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	48.1	235.0	0.19077			
			Base Case										
12755	981.0	2260.7	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	939.5	1399.0	0.46842	-0.00000	639.7	639.7
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		0.46842	1.00000	639.9	1621.0
13006	983.2	2262.9	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	938.4	1399.0	0.46842	-0.00000	639.7	639.7
			C:BUS:SHORE_RD_345					1727					
			Open 128835 SHORE RD		345	129293 SHORE RD	138	1		0.46842	0.50089	319.3	811.8
			Open 128835 SHORE RD		345	129293 SHORE RD	138	2		0.46842	0.49911	318.2	809.0
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW		345	126266 DUNWODIE	345	1		0.03090	0.00000	-0.0	-0.0
13058	987.3	2266.9	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-936.5	-1399.0	-0.46842	0.00000	-636.8	-636.8
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		-0.46842	1.00000	639.9	1627.2
13059	987.3	2266.9	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	936.5	1399.0	0.46842	-0.00000	636.8	636.8
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		0.46842	1.00000	639.9	1627.2
13083	989.5	2269.1	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-935.5	-1399.0	-0.46842	0.00000	-636.8	-636.8
			C:BUS:SHORE_RD_345					1727					
			Open 128835 SHORE RD		345	129293 SHORE RD	138	1		-0.46842	0.50089	319.3	815.0
			Open 128835 SHORE RD		345	129293 SHORE RD	138	2		-0.46842	0.49911	318.2	812.1
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		-0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW		345	126266 DUNWODIE	345	1		-0.03090	0.00000	-0.0	-0.0
13084	989.5	2269.1	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	935.5	1399.0	0.46842	-0.00000	636.8	636.8
			C:BUS:SHORE_RD_345					1727					
			Open 128835 SHORE RD		345	129293 SHORE RD	138	1		0.46842	0.50089	319.3	815.0
			Open 128835 SHORE RD		345	129293 SHORE RD	138	2		0.46842	0.49911	318.2	812.1
			Open 126266 DUNWODIE		345	128835 SHORE RD	345	1		0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW		345	126266 DUNWODIE	345	1		0.03090	0.00000	-0.0	-0.0
14920	1020.4	2300.0	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	48.2	235.0	0.18310			
			Base Case										
14949	1039.6	2319.2	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-218.0	-378.0	-0.15396			
			Base Case										
14974	1069.6	2349.3	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1029.4	-1811.0	-0.73068			
			Base Case										
15137	1164.1	2443.8	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	79.0	118.0	0.03352			
			Base Case										
15138	1164.1	2443.8	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	79.0	118.0	0.03352			
			Base Case										
15249	1168.3	2447.9	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	55.3	253.0	0.16927			
			Base Case										
22172	1200.3	2479.9	L: Interface 56 K-to-I					-1710.7	-2911.0	-1.00000	-1.00000	-1279.6	-2479.9
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
			Open 128842 NEPTCONV		345	128847 NWBRG	345	1		0.65299	0.00000	-660.2	-660.2
22173	1200.3	2479.9	L: Interface 55 I-to-K					1710.7	2911.0	1.00000	1.00000	1279.6	2479.9
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
			Open 128842 NEPTCONV		345	128847 NWBRG	345	1		-0.65299	0.00000	-660.2	-660.2
22330	1226.7	2506.3	L: Interface 18 NYC-LIPA					413.3	869.0	0.37145	0.00000	175.6	175.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					



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			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.37145	1.00000	639.9	1866.6
22331	1226.7	2506.3	L: Interface 57 J-to-K					413.3	869.0	0.37145	0.00000	175.6	175.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.37145	1.00000	639.9	1866.6
22332	1226.7	2506.3	L: Interface 58 K-to-J					-413.3	-869.0	-0.37145	0.00000	-175.6	-175.6
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.37145	1.00000	639.9	1866.6
22335	1229.1	2508.8	L: Interface 18 NYC-LIPA					412.4	869.0	0.37145	0.00000	175.6	175.6
			C:BUS:SHORE_RD_345										
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.37145	0.50089	319.3	935.0
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.37145	0.49911	318.2	931.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01059	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01059	0.00000	-0.0	-0.0
22336	1229.1	2508.8	L: Interface 57 J-to-K					412.4	869.0	0.37145	0.00000	175.6	175.6
			C:BUS:SHORE_RD_345										
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.37145	0.50089	319.3	935.0
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.37145	0.49911	318.2	931.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01059	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01059	0.00000	-0.0	-0.0
22337	1229.1	2508.8	L: Interface 58 K-to-J					-412.4	-869.0	-0.37145	0.00000	-175.6	-175.6
			C:BUS:SHORE_RD_345										
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			-0.37145	0.50089	319.3	935.0
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.37145	0.49911	318.2	931.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01059	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.01059	0.00000	-0.0	-0.0
24089	1257.7	2537.3	L: 126298 SPRBROOK	345	126299 REACBUS	345	BY	940.9	1530.0	0.46842	-0.00000	641.1	641.1
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.46842	1.00000	639.9	1897.6
24109	1259.9	2539.5	L: 126298 SPRBROOK	345	126299 REACBUS	345	BY	939.9	1530.0	0.46842	-0.00000	641.1	641.1
			C:BUS:SHORE_RD_345										
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46842	0.50089	319.3	950.4
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46842	0.49911	318.2	947.0
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.03090	0.00000	-0.0	-0.0
24149	1274.9	2554.5	L: Interface 55 I-to-K					1636.1	2911.0	1.00000	1.00000	1279.6	2554.5
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.79645	0.00000	447.6	447.6
24150	1274.9	2554.5	L: Interface 56 K-to-I					-1636.1	-2911.0	-1.00000	-1.00000	-1279.6	-2554.5
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			-0.79645	0.00000	447.6	447.6
24175	1352.6	2632.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-179.8	-497.0	-0.23449			
			Base Case										
24176	1353.0	2632.7	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	-1.3	491.0	0.36386	0.19077	48.1	306.2
			C:129270 E.G.C.	138	129271 E.G.C.-2	138	1	1515					
			Open 129270 E.G.C.	138	129271 E.G.C.-2	138	1			0.46237	0.37433	-106.8	399.7
24177	1354.0	2633.7	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	179.5	497.0	0.23449			
			Base Case										
24178	1381.8	2661.4	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	151.2	239.0	0.06354			
			Base Case										
24185	1423.9	2703.5	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1312.4	-2384.0	-0.75262	-0.73068	-1029.4	-2069.8
			C:SER:F39&Y87										
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			-0.13680	0.08121	1101.6	1217.3
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.13663	-0.07923	-967.9	-1080.8
			Open 126305 WOOD A	345	130758 WOODA345	345	1	NA					
			Open 130758 WOODA345	345	130865 WOODS115	115	1			-0.02814	0.00000	0.0	0.0
24186	1423.9	2703.5	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1312.4	-2384.0	-0.75262	-0.73068	-1029.4	-2069.8
			C:BUS:WOODA_345										
			Open 126305 WOOD A	345	130758 WOODA345	345	1			0.13663	0.00199	133.7	136.5
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			-0.27343	0.08121	1101.6	1217.3
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.10849	0.00000	-0.0	-0.0
24187	1425.7	2705.3	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1312.5	-2384.0	-0.75155	-0.73068	-1029.4	-2071.2
			C:126281 FISHKILL	345	126305 WOOD A	345	1	176					
			Open 126281 FISHKILL	345	126305 WOOD A	345	1			-0.25697	0.08121	1101.6	1217.4



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			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1		0.55967	0.05776	-283.5	-195.6	
24207	1521.9	2801.5	L: Interface 55 I-to-K					1438.3	2911.0	0.96767	1.00000	1279.6	2801.5
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	1609					
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1		-0.55967	0.05776	-283.5	-195.6	
24208	1524.9	2804.5	L: Interface 56 K-to-I					-1429.7	-2911.0	-0.97142	-1.00000	-1279.6	-2804.5
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612					
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1		0.59281	0.04821	-253.2	-179.7	
24209	1524.9	2804.5	L: Interface 55 I-to-K					1429.7	2911.0	0.97142	1.00000	1279.6	2804.5
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612					
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1		-0.59281	0.04821	-253.2	-179.7	
24212	1530.9	2810.6	L: Interface 56 K-to-I					-1421.4	-2911.0	-0.97302	-1.00000	-1279.6	-2810.6
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1610					
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1		0.55965	0.04821	-253.3	-179.5	
24213	1530.9	2810.6	L: Interface 55 I-to-K					1421.4	2911.0	0.97302	1.00000	1279.6	2810.6
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1610					
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1		-0.55965	0.04821	-253.3	-179.5	
24214	1531.5	2811.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	100.1	165.0	0.04239	0.03352	79.0	130.3
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1627					
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1		0.13958	0.06354	151.2	248.5	
24215	1531.5	2811.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	100.1	165.0	0.04239	0.03352	79.0	130.3
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1627					
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1		0.13958	0.06354	151.2	248.5	
24220	1545.8	2825.4	L: Interface 17 I-TO-J+K					4824.2	6370.0	1.00000			
			Base Case										
24221	1548.7	2828.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	89.7	339.0	0.16097	0.12323	68.7	259.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	1	1531					
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1		0.30623	0.12323	68.7	259.5	
24222	1548.7	2828.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	89.7	339.0	0.16097	0.12323	68.7	259.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	2	1532					
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2		0.30623	0.12323	68.7	259.5	
24234	1566.5	2846.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	105.4	339.0	0.14915	0.12323	68.7	261.7
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1528					
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1		-0.16832	-0.15396	-218.0	-459.1	
24235	1566.5	2846.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	105.4	339.0	0.14915	0.12323	68.7	261.7
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1528					
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1		-0.16832	-0.15396	-218.0	-459.1	
24236	1576.2	2855.8	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-266.4	-636.0	-0.23449	-0.23449	-179.8	-549.4
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		0.25903	0.00000	-334.2	-334.2	
24237	1576.9	2856.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	68.7	263.0	0.12323			
			Base Case										
24238	1576.9	2856.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	68.7	263.0	0.12323			
			Base Case										
24239	1577.6	2857.2	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	266.1	636.0	0.23449	0.23449	179.5	549.4
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		-0.25903	0.00000	-334.2	-334.2	
24240	1579.1	2858.7	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-265.7	-636.0	-0.23449	-0.23449	-179.8	-550.1
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1558					
			Open 129361 RULND RD	138	129362 RUL PAR	138	1		-0.46421	0.00000	185.0	185.0	
24241	1579.4	2859.1	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-265.6	-636.0	-0.23449	-0.23449	-179.8	-550.2
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1560					
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1		0.46421	0.00000	-184.8	-184.8	
24250	1580.6	2860.2	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	265.4	636.0	0.23449	0.23449	179.5	550.1
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1558					
			Open 129361 RULND RD	138	129362 RUL PAR	138	1		0.46421	0.00000	185.0	185.0	
24251	1580.9	2860.5	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	265.3	636.0	0.23449	0.23449	179.5	550.2
			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1560					
			Open 129362 RUL PAR	138	129421 HOLBROOK	138	1		-0.46421	0.00000	-184.8	-184.8	
24280	1591.8	2871.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	88.3	339.0	0.15748	0.12323	68.7	264.8
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1533					
			Open 129310 NEWBRGE	138	129361 RULND RD	138	3		0.29959	0.11431	65.6	247.6	
24281	1591.8	2871.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	88.3	339.0	0.15748	0.12323	68.7	264.8
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1533					

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				Open 129310 NEWBRGE	138	129361 RULND RD	138	3		0.29959	0.11431	65.6	247.6	
24294	1595.6	2875.3	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	1	84.6	165.0	0.05042	0.03352	79.0	132.5
			C:	129282 GLNWD NO	138	129293 SHORE RD	138	1	1524					
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1		-0.04056	-0.41657	-137.5	-802.2	
24295	1595.6	2875.3	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	2	84.6	165.0	0.05042	0.03352	79.0	132.5
			C:	129282 GLNWD NO	138	129293 SHORE RD	138	1	1524					
				Open 129282 GLNWD NO	138	129293 SHORE RD	138	1		-0.04056	-0.41657	-137.5	-802.2	
24347	1623.6	2903.2	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	1	97.8	165.0	0.04141	0.03352	79.0	133.4
			C:	129248 L SUCS	138	129543 LKE SCSS	69.0	2	1628					
				Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2		0.13588	0.05810	138.2	232.5	
24348	1623.6	2903.2	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	2	97.8	165.0	0.04141	0.03352	79.0	133.4
			C:	129248 L SUCS	138	129543 LKE SCSS	69.0	2	1628					
				Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2		0.13588	0.05810	138.2	232.5	
24351	1623.7	2903.4	L:	126266 DUNWODIE	345	126292 PL VILLE	345	1	-1182.4	-2384.0	-0.74002	-0.73068	-1029.4	-2215.9
			C:	126291 MILLWOOD	345	126294 PLTVLLEY	345	1	179					
				Open 126291 MILLWOOD	345	126294 PLTVLLEY	345	1		0.16450	-0.05673	-929.9	-1022.1	
24437	1628.7	2908.3	L:	126266 DUNWODIE	345	126292 PL VILLE	345	1	-1179.8	-2384.0	-0.73939	-0.73068	-1029.4	-2219.5
			C:	126294 PLTVLLEY	345	126306 WOOD B	345	1	184					
				Open 126294 PLTVLLEY	345	126306 WOOD B	345	1		-0.15677	0.05552	959.2	1049.6	
27705	1635.9	2915.5	L:	126266 DUNWODIE	345	126292 PL VILLE	345	1	-1172.7	-2384.0	-0.74043	-0.73068	-1029.4	-2224.7
			C:	SER:F30&W80					1685					
				Open 126294 PLTVLLEY	345	126306 WOOD B	345	1		-0.03145	0.05552	959.2	1050.0	
				Open 126291 MILLWOOD	345	126306 WOOD B	345	1		0.13439	-0.05955	-841.9	-939.3	
				Open 126306 WOOD B	345	130759 WOODB345	345	1	NA					
				Open 130759 WOODB345	345	130865 WOODS115	115	1		-0.07749	0.00000	0.0	0.0	
27794	1644.9	2924.5	L:	91 JEFFERSN	500	126250 RAMAPO 5	500	1	1016.5	1373.0	0.21674	0.00000	1004.8	1004.8
			C:	BUS:PLVILLE_345					1726					
				Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1		-0.00439	0.00625	45.2	55.5	
				Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01	NA					
				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		0.00686	-0.73068	-1029.4	-2231.3	
				Open 126281 FISHKILL	345	126292 PL VILLE	345	1		-0.22178	-1.00000	-85.3	-1730.3	
27795	1644.9	2924.5	L:	91 JEFFERSN	500	126250 RAMAPO 5	500	1	1016.5	1373.0	0.21674	0.00000	1004.8	1004.8
			C:	SER:F38&Y86					1686					
				Open 126281 FISHKILL	345	126292 PL VILLE	345	1		-0.00686	-0.26307	989.3	556.6	
				Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1		0.00247	0.00625	45.2	55.5	
				Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01	NA					
				Open 126266 DUNWODIE	345	126292 PL VILLE	345	1		-0.21492	-1.00000	-85.3	-1730.3	
27815	1650.2	2929.8	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	1	84.5	165.0	0.04881	0.03352	79.0	134.3
			C:	129283 GLNWD SO	138	129293 SHORE RD	138	1	1525					
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1		-0.03873	-0.39475	-141.4	-792.8	
27816	1650.2	2929.8	L:	129244 GRT NECK	138	129537 GRT NECK	69.0	2	84.5	165.0	0.04881	0.03352	79.0	134.3
			C:	129283 GLNWD SO	138	129293 SHORE RD	138	1	1525					
				Open 129283 GLNWD SO	138	129293 SHORE RD	138	1		-0.03873	-0.39475	-141.4	-792.8	
27851	1660.6	2940.2	L:	129270 E.G.C.	138	129310 NEWBRGE	138	1	174.2	491.0	0.19077	0.19077	48.1	364.9
			C:	128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1		-0.19105	0.00000	-660.2	-660.2	
27852	1662.4	2942.1	L:	Interface 15 I-to-K					1709.6	3372.0	1.00000	1.00000	1278.5	2940.9
			C:	128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
				Open 128842 NEPTCONV	345	128847 NWBRG	345	1		-0.65299	0.00000	-660.2	-660.2	
27853	1664.5	2944.1	L:	129310 NEWBRGE	138	129361 RULND RD	138	1	133.9	339.0	0.12323	0.12323	68.7	273.8
			C:	129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
				Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		0.14568	0.00000	447.6	447.6	
27854	1664.5	2944.1	L:	129310 NEWBRGE	138	129361 RULND RD	138	2	133.9	339.0	0.12323	0.12323	68.7	273.8
			C:	129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
				Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		0.14568	0.00000	447.6	447.6	
27878	1671.8	2951.5	L:	129339 KINGS HWY	138	129355 PILGRIM	138	1	-244.0	-636.0	-0.23449	-0.23449	-179.8	-571.9
			C:	129337 HAUPAGUE	138	129356 PILGRM P	138	1	1542					
				Open 129337 HAUPAGUE	138	129356 PILGRM P	138	1		0.38869	0.00000	-165.0	-165.0	
27879	1671.8	2951.5	L:	129339 KINGS HWY	138	129355 PILGRIM	138	1	-244.0	-636.0	-0.23449	-0.23449	-179.8	-571.9
			C:	129355 PILGRIM	138	129356 PILGRM P	138	1	1554					
				Open 129355 PILGRIM	138	129356 PILGRM P	138	1		-0.38869	0.00000	165.0	165.0	
27888	1673.3	2952.9	L:	129339 KINGS HWY	138	129427 HOLTS GT	138	1	243.6	636.0	0.23449	0.23449	179.5	571.9
			C:	129337 HAUPAGUE	138	129356 PILGRM P	138	1	1542					

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			Open 129337 HAUPAGUE	138	129356	PILGRM P	138	1				-0.38869	0.00000	-165.0	-165.0
27889	1673.3	2952.9	L: 129339 KINGS HWY	138	129427	HOLTS GT	138	1	243.6	636.0	0.23449	0.23449	179.5	571.9	
			C:129355 PILGRIM	138	129356	PILGRM P	138	1							1554
			Open 129355 PILGRIM	138	129356	PILGRM P	138	1				0.38869	0.00000	165.0	165.0
27898	1675.8	2955.4	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	89.1	339.0	0.14915	0.12323	68.7	275.2	
			C:129305 LCST GRV	138	129315	SYOSSET	138	1							1529
			Open 129305 LCST GRV	138	129315	SYOSSET	138	1				0.16832	0.15396	121.1	379.1
27899	1675.8	2955.4	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	89.1	339.0	0.14915	0.12323	68.7	275.2	
			C:129305 LCST GRV	138	129315	SYOSSET	138	1							1529
			Open 129305 LCST GRV	138	129315	SYOSSET	138	1				0.16832	0.15396	121.1	379.1
27919	1691.2	2970.8	L: 129270 E.G.C.	138	129310	NEWBRGE	138	1	64.3	491.0	0.25233	0.19077	48.1	370.7	
			C:129271 E.G.C.-2	138	129310	NEWBRGE	138	2							1519
			Open 129271 E.G.C.-2	138	129310	NEWBRGE	138	2				0.33621	0.18310	48.2	357.8
27926	1713.1	2992.8	L: 129270 E.G.C.	138	129310	NEWBRGE	138	1	66.7	491.0	0.24770	0.19077	48.1	374.9	
			C:129270 E.G.C.	138	129310	NEWBRGE	138	3							1518
			Open 129270 E.G.C.	138	129310	NEWBRGE	138	3				0.33631	0.16927	55.3	345.2
27931	1725.8	3005.5	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	64.3	491.0	0.24723	0.18310	48.2	364.2	
			C:129270 E.G.C.	138	129310	NEWBRGE	138	1							1517
			Open 129270 E.G.C.	138	129310	NEWBRGE	138	1				0.33614	0.19077	48.1	377.3
27934	1730.3	3009.9	L: 129248 L SUCS	138	129543	LKE SCSS	69.0	1	194.0	335.0	0.08151	0.06354	151.2	261.1	
			C:129248 L SUCS	138	129543	LKE SCSS	69.0	2							1628
			Open 129248 L SUCS	138	129543	LKE SCSS	69.0	2				0.30935	0.05810	138.2	238.7
27943	1734.7	3014.4	L: 129248 L SUCS	138	129543	LKE SCSS	69.0	2	138.2	239.0	0.05810				
			Base Case												
27944	1737.1	3016.7	L: Interface 15 I-to-K						1634.9	3372.0	1.00000	1.00000	1278.5	3015.5	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1							1549
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1				0.79645	0.00000	447.6	447.6
27945	1737.2	3016.8	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	172.9	491.0	0.18310	0.18310	48.2	366.2	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1							1492
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.18896	0.00000	-660.2	-660.2
27952	1747.9	3027.5	L: 129305 LCST GRV	138	129310	NEWBRGE	138	1	-328.9	-598.0	-0.15396	-0.15396	-218.0	-487.1	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1							1549
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1				-0.24788	0.00000	447.6	447.6
27972	1781.1	3060.7	L: 129310 NEWBRGE	138	129361	RULND RD	138	1	119.5	339.0	0.12323	0.12323	68.7	288.2	
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1							1497
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1				-0.15209	0.00000	-334.2	-334.2
27973	1781.1	3060.7	L: 129310 NEWBRGE	138	129361	RULND RD	138	2	119.5	339.0	0.12323	0.12323	68.7	288.2	
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1							1497
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1				-0.15209	0.00000	-334.2	-334.2
27974	1786.8	3066.4	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	66.0	491.0	0.23784	0.18310	48.2	375.3	
			C:129270 E.G.C.	138	129310	NEWBRGE	138	3							1518
			Open 129270 E.G.C.	138	129310	NEWBRGE	138	3				0.32340	0.16927	55.3	357.7
27977	1795.1	3074.7	L: 129355 PILGRIM	138	129686	PILGRM	69.0	1	274.9	335.0	0.03350	0.02276	186.8	227.7	
			C:129355 PILGRIM	138	129686	PILGRM	69.0	2							1639
			Open 129355 PILGRIM	138	129686	PILGRM	69.0	2				0.49968	0.02149	176.2	214.7
27982	1801.5	3081.2	L: 129339 KINGS HWY	138	129355	PILGRIM	138	1	-213.6	-636.0	-0.23449	-0.23449	-179.8	-602.3	
			C:129337 HAUPAGUE	138	129393	C.ISLIP	138	1							1543
			Open 129337 HAUPAGUE	138	129393	C.ISLIP	138	1				-0.38869	0.00000	86.8	86.8
27983	1803.0	3082.6	L: 129339 KINGS HWY	138	129427	HOLTS GT	138	1	213.2	636.0	0.23449	0.23449	179.5	602.3	
			C:129337 HAUPAGUE	138	129393	C.ISLIP	138	1							1543
			Open 129337 HAUPAGUE	138	129393	C.ISLIP	138	1				0.38869	0.00000	86.8	86.8
27988	1806.9	3086.5	L: 129339 KINGS HWY	138	129355	PILGRIM	138	1	-188.3	-636.0	-0.24775	-0.23449	-179.8	-603.5	
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1							1458
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.01327	1.00000	639.9	2446.8
27989	1807.0	3086.7	L: 129339 KINGS HWY	138	129355	PILGRIM	138	1	-188.3	-636.0	-0.24775	-0.23449	-179.8	-603.6	
			C:BUS:SHORE_RD_345												1727
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				-0.01327	0.50089	319.3	1224.5
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				-0.01327	0.49911	318.2	1220.1
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.00165	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				0.00165	0.00000	-0.0	-0.0
27990	1808.3	3087.9	L: 129339 KINGS HWY	138	129427	HOLTS GT	138	1	188.0	636.0	0.24775	0.23449	179.5	603.5	
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1							1458
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.01327	1.00000	639.9	2448.2

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27991	1808.4	3088.0	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	188.0	636.0	0.24775	0.23449	179.5	603.5
			C:BUS:SHORE_RD_345									1727	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.01327	0.50089	319.3	1225.2
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.01327	0.49911	318.2	1220.8
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00165	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.00165	0.00000	-0.0	-0.0
27993	1813.5	3093.1	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	145.0	491.0	0.19077	0.19077	48.1	394.0
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.21664	0.00000	447.6	447.6
27995	1817.8	3097.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1530					
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1			0.17881	0.16480	-40.6	259.0
27996	1817.8	3097.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1530					
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1			0.17881	0.16480	-40.6	259.0
27997	1817.8	3097.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1536					
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1			-0.17881	-0.16480	40.6	-259.0
27998	1817.8	3097.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1536					
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1			-0.17881	-0.16480	40.6	-259.0
27999	1821.1	3100.7	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	1	1625					
			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	1			0.17839	0.03352	79.0	140.0
28000	1821.1	3100.7	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	2	1626					
			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	2			0.17839	0.03352	79.0	140.0
28013	1837.6	3117.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-226.0	-636.0	-0.22312	-0.23449	-179.8	-610.7
			C:129092 PTJFEG3	20.0	129448 PT JEFF1	138	1	1617					
			Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1			0.24872	0.04569	-185.6	-101.6
28019	1839.1	3118.7	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.7	636.0	0.22312	0.23449	179.5	610.7
			C:129092 PTJFEG3	20.0	129448 PT JEFF1	138	1	1617					
			Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1			-0.24872	0.04569	-185.6	-101.5
28020	1839.2	3118.8	*L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-225.4	-636.0	-0.22327	-0.23449	-179.8	-611.1
			C:129093 PTJFEG4	20.0	129449 PT JEFF2	138	1	1618					
			Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1			0.24873	0.04507	-183.0	-100.1
28024	1840.7	3120.3	*L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.0	636.0	0.22327	0.23449	179.5	611.1
			C:129093 PTJFEG4	20.0	129449 PT JEFF2	138	1	1618					
			Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1			-0.24873	0.04507	-183.0	-100.0
28038	1844.8	3124.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	57.3	339.0	0.15270	0.12323	68.7	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1	1537					
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1			0.17881	0.16480	-63.7	240.4
28039	1844.8	3124.4	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	57.3	339.0	0.15270	0.12323	68.7	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1	1537					
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1			0.17881	0.16480	-63.7	240.4
28061	1895.0	3174.6	L: Interface 15 I-to-K					1477.0	3372.0	1.00000	1.00000	1278.5	3173.4
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.59419	0.00000	-334.2	-334.2
28068	1965.7	3245.4	L: Interface 15 I-to-K					1406.3	3372.0	1.00000	1.00000	1278.5	3244.2
			C:SIN:250					1783					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28069	1968.2	3247.8	L: Interface 15 I-to-K					1403.8	3372.0	1.00000	1.00000	1278.5	3246.6
			C:GEN:MILLST 3					1677					
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28070	1968.2	3247.8	L: Interface 15 I-to-K					1403.8	3372.0	1.00000	1.00000	1278.5	3246.6
			C:GEN:MLS3&OMS					1679					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28071	1993.8	3273.4	L: Interface 15 I-to-K					1446.5	3372.0	0.96576	1.00000	1278.5	3272.2
			C:129026 NRTPGT3	22.0	129342 NRTHPRT2	138	1	1611					
			Open 129026 NRTPGT3	22.0	129342 NRTHPRT2	138	1			-0.59281	0.05776	-283.5	-168.3
28072	1999.5	3279.1	L: Interface 15 I-to-K					1437.1	3372.0	0.96767	1.00000	1278.5	3278.0

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				C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1609									
				Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1										
28073	2000.6	3280.3	L:	Interface	15	I-to-K					1428.5	3372.0	0.97142		1.00000	1278.5	3279.1		
				C:129027 NRTPTG4	22.0	129342	NRTHPT2	138	1	1612									
				Open 129027 NRTPTG4	22.0	129342	NRTHPT2	138	1										
28078	2005.9	3285.5	*L:	Interface	15	I-to-K					1420.2	3372.0	0.97302		1.00000	1278.5	3284.4		
				C:129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	1610									
				Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1										
29595	2230.8	3510.5	L:	Interface	20	LI SUM					2010.2	4241.0	1.00000		1.00000	1454.1	3684.9		
				C:128842 NEPTCONV	345	128847	NWBRG	345	1	1492									
				Open 128842 NEPTCONV	345	128847	NWBRG	345	1										
29596	2339.3	3619.0	L:	Interface	20	LI SUM					1901.7	4241.0	1.00000		1.00000	1454.1	3793.4		
				C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1549									
				Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1										
29600	2404.0	3683.7	L:	Interface	78	LIPA Export					-3184.8	-5450.0	-0.94224		-1.00000	-2901.3	-5305.4		
				C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1609									
				Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1										
29601	2404.1	3683.7	L:	Interface	78	LIPA Export					-3184.8	-5450.0	-0.94224		-1.00000	-2901.3	-5305.4		
				C:129026 NRTPTG3	22.0	129342	NRTHPT2	138	1	1611									
				Open 129026 NRTPTG3	22.0	129342	NRTHPT2	138	1										
29602	2411.7	3691.3	L:	Interface	78	LIPA Export					-3154.6	-5450.0	-0.95179		-1.00000	-2901.3	-5313.0		
				C:129025 NRTPTG2	22.0	129341	NRTHPT1	138	1	1610									
				Open 129025 NRTPTG2	22.0	129341	NRTHPT1	138	1										
29603	2411.8	3691.4	L:	Interface	78	LIPA Export					-3154.5	-5450.0	-0.95179		-1.00000	-2901.3	-5313.1		
				C:129027 NRTPTG4	22.0	129342	NRTHPT2	138	1	1612									
				Open 129027 NRTPTG4	22.0	129342	NRTHPT2	138	1										
29604	2476.3	3755.9	L:	Interface	78	LIPA Export					-3086.9	-5450.0	-0.95431		-1.00000	-2901.3	-5377.6		
				C:129092 PTJFEG3	20.0	129448	PT JEFF1	138	1	1617									
				Open 129092 PTJFEG3	20.0	129448	PT JEFF1	138	1										
29605	2476.7	3756.3	L:	Interface	78	LIPA Export					-3084.9	-5450.0	-0.95493		-1.00000	-2901.3	-5378.0		
				C:128900 BARETG1	20.0	129202	BARRETT1	138	1	1603									
				Open 128900 BARETG1	20.0	129202	BARRETT1	138	1										
29606	2477.3	3757.0	L:	Interface	78	LIPA Export					-3084.3	-5450.0	-0.95493		-1.00000	-2901.3	-5378.7		
				C:129093 PTJFEG4	20.0	129449	PT JEFF2	138	1	1618									
				Open 129093 PTJFEG4	20.0	129449	PT JEFF2	138	1										
29607	2477.4	3757.1	L:	Interface	78	LIPA Export					-3084.2	-5450.0	-0.95493		-1.00000	-2901.3	-5378.8		
				C:128901 BARETG2	20.0	129203	BARRETT2	138	1	1604									
				Open 128901 BARETG2	20.0	129203	BARRETT2	138	1										
29608	2514.2	3793.9	L:	Interface	78	LIPA Export					-3064.7	-5450.0	-0.94871		-1.00000	-2901.3	-5415.5		
				C:121102 STARS-01102	13.8	129361	RULND RD	138	02	1599									
				Open 121102 STARS-01102	13.8	129361	RULND RD	138	02										
29609	2514.2	3793.9	*L:	Interface	78	LIPA Export					-3064.7	-5450.0	-0.94871		-1.00000	-2901.3	-5415.5		
				C:121101 STARS-01101	13.8	129361	RULND RD	138	01	1598									
				Open 121101 STARS-01101	13.8	129361	RULND RD	138	01										
29615	2529.7	3809.3	L:	Interface	20	LI SUM					1711.3	4241.0	1.00000		1.00000	1454.1	3983.8		
				C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1497									
				Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1										
31137	2598.6	3878.2	L:	Interface	20	LI SUM					1642.4	4241.0	1.00000		1.00000	1454.1	4052.7		
				C:SIN:250						1783									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW	dispatch											
31138	2603.6	3883.3	L:	Interface	20	LI SUM					1637.4	4241.0	1.00000		1.00000	1454.1	4057.7		
				C:GEN:MILLST 3						1677									
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW	dispatch											
31139	2603.6	3883.3	L:	Interface	20	LI SUM					1637.4	4241.0	1.00000		1.00000	1454.1	4057.7		
				C:GEN:MLS3&OMS						1679									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW	dispatch											
31140	2651.5	3931.1	L:	Interface	20	LI SUM					1589.5	4241.0	1.00000		1.00000	1454.1	4105.6		
				C:GEN:SEAB&OMS						1680									
				Open 100508 SANDB115	115	100509	SB RCTOR	115	2										
				Remove unit 1 from bus 102869 SBRK G1	25.0	1327.0	MW	dispatch											
31141	2651.5	3931.1	L:	Interface	20	LI SUM					1589.5	4241.0	1.00000		1.00000	1454.1	4105.6		

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		C:GEN:SEABROOK				1678			
			Remove unit 1	from bus 102869	SBRK G1	25.0	1327.0	MW	dispatch
31142	2688.5	3968.1	L: Interface	20	LI SUM				
			C:129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1 1611
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138 1
31143	2692.2	3971.8*	L: Interface	20	LI SUM				
			C:129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1 1612
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138 1
32657	2894.6	4174.2	L: Interface	19	LIPA IMPORT				
			C:129024	NRTPTG1	22.0	129346	NRTHPRT3	138	1 1609
			Open	129024	NRTPTG1	22.0	129346	NRTHPRT3	138 1
32658	2894.6	4174.2	L: Interface	19	LIPA IMPORT				
			C:129026	NRTPTG3	22.0	129342	NRTHPRT2	138	1 1611
			Open	129026	NRTPTG3	22.0	129342	NRTHPRT2	138 1
32659	2897.2	4176.9	L: Interface	19	LIPA IMPORT				
			C:129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1 1610
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138 1
32660	2897.4	4177.0	L: Interface	19	LIPA IMPORT				
			C:129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1 1612
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138 1
32669	2960.6	4240.2	L: Interface	19	LIPA IMPORT				
			C:129092	PTJFEG3	20.0	129448	PT JEFF1	138	1 1617
			Open	129092	PTJFEG3	20.0	129448	PT JEFF1	138 1
32670	2960.7	4240.3	L: Interface	19	LIPA IMPORT				
			C:128900	BARETG1	20.0	129202	BARRETT1	138	1 1603
			Open	128900	BARETG1	20.0	129202	BARRETT1	138 1
32671	2961.3	4240.9	L: Interface	19	LIPA IMPORT				
			C:129093	PTJFEG4	20.0	129449	PT JEFF2	138	1 1618
			Open	129093	PTJFEG4	20.0	129449	PT JEFF2	138 1
32672	2961.4	4241.1	L: Interface	19	LIPA IMPORT				
			C:128901	BARETG2	20.0	129203	BARRETT2	138	1 1604
			Open	128901	BARETG2	20.0	129203	BARRETT2	138 1
32673	2999.7	4279.3	L: Interface	19	LIPA IMPORT				
			C:128902	BRT G1-8	13.8	129202	BARRETT1	138	1 1605
			Open	128902	BRT G1-8	13.8	129202	BARRETT1	138 1



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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- FRI, JAN 20 2012 22:45  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #10  
 Case.File ICAP-T10-Rev5-LIPA-Import.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 32457  
 First violation - -185.3 MW.

Study transfer. From ABCDEFG\_EXP To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 32457 violations

Interface-1 Interface 19 LIPA IMPORT Init.Flow= 2900.15 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	LODF	PTDF =Base Case Flow=						
			C: Contingency description	___Ncon	Flow	Rating		Init	Final					
1	-185.3	2714.8	L: Interface 78 LIPA Export Base Case		-2901.3	-2716.0	-1.00000							
2	-124.1	2776.0	L: Interface 19 LIPA IMPORT Base Case		2900.1	2776.0	1.00000							
3	13.1	2913.2	L: 126266 DUNWODIE Base Case	345	128835	SHORE RD	345 1	639.9	653.0	1.00000				
4	81.4	2981.5	L: Interface 55 I-to-K Base Case		1279.6	1361.0	1.00000							
5	81.4	2981.5	L: Interface 56 K-to-I Base Case		-1279.6	-1361.0	-1.00000							
6	142.5	3042.7	L: Interface 15 I-to-K Base Case		1278.5	1421.0	1.00000							
7	205.7	3105.8	L: 129283 GLNWD SO Base Case	138	129588	GLNWD SO	69.0 1	108.2	118.0	0.04758				
8	324.7	3224.9	L: 128835 SHORE RD Base Case	345	129293	SHORE RD	138 1	319.3	482.0	0.50089				
9	328.2	3228.3	L: 128835 SHORE RD Base Case	345	129293	SHORE RD	138 2	318.2	482.0	0.49911				
10	407.2	3307.4	L: 126452 HUDAVE E C:126266 DUNWODIE	138	126455	JAMAICA	138 1	360.4	406.0	0.11210	0.00000	288.6	288.6	
			Open 126266 DUNWODIE	345	128835	SHORE RD	345 1	1458			0.11210	1.00000	639.9	1047.1
11	407.2	3307.4	L: 126452 HUDAVE E C:126266 DUNWODIE	138	126455	JAMAICA	138 2	360.4	406.0	0.11210	0.00000	288.6	288.6	
			Open 126266 DUNWODIE	345	128835	SHORE RD	345 1	1458			0.11210	1.00000	639.9	1047.1
12	408.9	3309.1	L: 128835 SHORE RD C:128835 SHORE RD	345	129293	SHORE RD	138 1	469.1	770.0	0.73578	0.50089	319.3	524.2	
			Open 128835 SHORE RD	345	129293	SHORE RD	138 2	1491			0.47062	0.49911	318.2	522.3
13	409.8	3310.0	L: 126452 HUDAVE E C:BUS:SHORE_RD_345	138	126455	JAMAICA	138 1	360.1	406.0	0.11210	0.00000	288.6	288.6	
			Open 128835 SHORE RD	345	129293	SHORE RD	138 1	1727			0.11210	0.50089	319.3	524.6
			Open 128835 SHORE RD	345	129293	SHORE RD	138 2				0.11210	0.49911	318.2	522.8
			Open 126266 DUNWODIE	345	128835	SHORE RD	345 1				-0.01268	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345 1				-0.01268	0.00000	-0.0	-0.0
14	409.8	3310.0	L: 126452 HUDAVE E C:BUS:SHORE_RD_345	138	126455	JAMAICA	138 2	360.1	406.0	0.11210	0.00000	288.6	288.6	
			Open 128835 SHORE RD	345	129293	SHORE RD	138 1	1727			0.11210	0.50089	319.3	524.6
			Open 128835 SHORE RD	345	129293	SHORE RD	138 2				0.11210	0.49911	318.2	522.8
			Open 126266 DUNWODIE	345	128835	SHORE RD	345 1				-0.01268	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345 1				-0.01268	0.00000	-0.0	-0.0
15	410.9	3311.1	L: 128835 SHORE RD	345	129293	SHORE RD	138 2	468.2	770.0	0.73439	0.49911	318.2	523.3	



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				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA									
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00067	0.00000	-318.2	-318.2			
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.22600	0.00000	4.5	4.5			
30	525.0	3425.2	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1	275.8	428.0	0.28989	0.00000	0.00000	90.3	90.3			
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1								1458		
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.28989	1.00000	639.9	1164.9			
31	527.4	3427.6	L:	126455 JAMAICA	138	129249 L SUCSPH	138	1	275.1	428.0	0.28989	0.00000	0.00000	90.3	90.3			
			C:	BUS:SHORE_RD_345												1727		
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.28989	0.50089	319.3	583.5			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.28989	0.49911	318.2	581.5			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00513	0.00000	2.4	2.4			
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00513	0.00000	-0.0	-0.0			
32	529.2	3429.4	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	982.8	1512.0	1.00000	1.00000	639.9	1169.1				
			C:	126299 REACBUS	345	147857 DVNPT NK	345	1								199		
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.53595	-0.00000	639.7	639.7			
33	529.9	3430.0	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	982.1	1512.0	1.00000	1.00000	639.9	1169.8				
			C:	128830 HMP HRBR	345	147857 DVNPT NK	345	1								1468		
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.53595	0.00000	-638.5	-638.5			
34	530.7	3430.9	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	981.3	1512.0	1.00000	1.00000	639.9	1170.7				
			C:	BUS:EGC_345												1728		
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.53572	-0.00000	641.1	641.1			
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00047	0.00000	-318.2	-318.2			
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.50097	0.00000	4.5	4.5			
35	530.7	3430.9	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	981.3	1512.0	1.00000	1.00000	639.9	1170.7				
			C:	SPRN-BRK-345												1884		
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.53572	-0.00000	641.1	641.1			
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00047	0.00000	-318.2	-318.2			
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.50097	0.00000	4.5	4.5			
36	530.8	3430.9	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	981.2	1512.0	1.00000	1.00000	639.9	1170.7				
			C:	128824 EGC DUM	345	128830 HMP HRBR	345	1								1489		
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.53595	0.00000	-636.8	-636.8			
37	530.8	3430.9	L:	126266 DUNWODIE	345	128835 SHORE RD	345	1	981.2	1512.0	1.00000	1.00000	639.9	1170.7				
			C:	128824 EGC DUM	345	128825 EGC PAR	345	1								1488		
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.53595	-0.00000	636.8	636.8			
38	535.8	3436.0	L:	126280 FARRAGUT TX9	345	126437 FGT_X9	138	1	175.9	216.0	0.07477	-0.00000	128.1	128.1				
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1								1458		
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.07477	1.00000	639.9	1175.7			
39	538.4	3438.6	L:	126280 FARRAGUT TX9	345	126437 FGT_X9	138	1	175.7	216.0	0.07477	-0.00000	128.1	128.1				
			C:	BUS:SHORE_RD_345												1727		
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.07477	0.50089	319.3	589.0			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.07477	0.49911	318.2	587.0			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00845	0.00000	2.4	2.4			
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00845	0.00000	-0.0	-0.0			
40	551.7	3451.8	L:	126277 FARRAGUT	345	126451 FGT_X8	138	1	174.8	216.0	0.07475	-0.00000	126.9	126.9				
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1								1458		
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.07475	1.00000	639.9	1191.6			
41	552.9	3453.0	L:	126277 FARRAGUT	345	126436 FGT_X10	138	1	174.7	216.0	0.07468	-0.00000	126.9	126.9				
			C:	126266 DUNWODIE	345	128835 SHORE RD	345	1								1458		
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.07468	1.00000	639.9	1192.8			
42	554.3	3454.4	L:	126277 FARRAGUT	345	126451 FGT_X8	138	1	174.6	216.0	0.07475	-0.00000	126.9	126.9				
			C:	BUS:SHORE_RD_345												1727		
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.07475	0.50089	319.3	597.0			
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.07475	0.49911	318.2	594.9			
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.00845	0.00000	2.4	2.4			
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.00845	0.00000	-0.0	-0.0			

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43	555.5	3455.6	L: 126277 FARRAGUT	345	126436	FGT_X10	138	1	174.5	216.0	0.07468	-0.00000	126.9	126.9
			C:BUS:SHORE_RD_345										1727	
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1			0.07468	0.50089	319.3	597.6
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2			0.07468	0.49911	318.2	595.5
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.00844	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1			-0.00844	0.00000	-0.0	-0.0
44	556.9	3457.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	491.1	770.0	0.50089	0.50089	319.3	598.3
			C:126299 REACBUS	345	147857	DVNPT NK	345	1					199	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1			0.26845	-0.00000	639.7	639.7
45	557.5	3457.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.8	770.0	0.50089	0.50089	319.3	598.6
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1					1468	
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			-0.26845	0.00000	-638.5	-638.5
46	557.7	3457.9	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.7	-339.0	-0.35563	-0.35563	9.8	-188.5
			C:126299 REACBUS	345	147857	DVNPT NK	345	1					199	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1			-0.23526	-0.00000	639.7	639.7
47	558.4	3458.5	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.0
			C:SPRN-BRK-345										1884	
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			0.26833	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					NA	
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					NA	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					NA	
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1					NA	
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			-0.00023	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			-0.25093	0.00000	4.5	4.5
48	558.4	3458.5	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.0
			C:BUS:EGC_345										1728	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					NA	
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			0.26833	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					NA	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					NA	
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1					NA	
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			-0.00023	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			-0.25093	0.00000	4.5	4.5
49	558.4	3458.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.1
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1					1489	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			-0.26845	0.00000	-636.8	-636.8
50	558.4	3458.6	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	490.3	770.0	0.50089	0.50089	319.3	599.1
			C:128824 EGC DUM	345	128825	EGC PAR	345	1					1488	
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			0.26845	-0.00000	636.8	636.8
51	558.5	3458.6	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.4	-339.0	-0.35563	-0.35563	9.8	-188.8
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1					1468	
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			0.23526	0.00000	-638.5	-638.5
52	559.7	3459.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.0	-339.0	-0.35563	-0.35563	9.8	-189.2
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1					1489	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			0.23526	0.00000	-636.8	-636.8
53	559.7	3459.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.0	-339.0	-0.35563	-0.35563	9.8	-189.2
			C:128824 EGC DUM	345	128825	EGC PAR	345	1					1488	
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			-0.23526	-0.00000	636.8	636.8
54	559.7	3459.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.0	-339.0	-0.35563	-0.35563	9.8	-189.2
			C:BUS:EGC_345										1728	
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					NA	
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.23493	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					NA	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					NA	
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1					NA	
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00067	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.22600	0.00000	4.5	4.5
55	559.7	3459.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-140.0	-339.0	-0.35563	-0.35563	9.8	-189.2
			C:SPRN-BRK-345										1884	
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			-0.23493	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1					NA	
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					NA	
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1					NA	

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				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00067	0.00000	-318.2	-318.2					
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			0.22600	0.00000	4.5	4.5					
56	562.3	3462.5	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	489.3	770.0	0.49911		0.49911	318.2	598.9				
			C:	126299 REACBUS	345	147857 DVNPT NK	345	1	199										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.26750	-0.00000	639.7	639.7				
57	563.0	3463.1	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	489.0	770.0	0.49911		0.49911	318.2	599.2				
			C:	128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.26750	0.00000	-638.5	-638.5				
58	563.8	3464.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.6				
			C:	SPRN-BRK-345					1884										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26738	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00023	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.25004	0.00000	4.5	4.5				
59	563.8	3464.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.6				
			C:	BUS:EGC_345					1728										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.26738	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00023	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.25004	0.00000	4.5	4.5				
60	563.9	3464.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.7				
			C:	128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.26750	0.00000	-636.8	-636.8				
61	563.9	3464.0	L:	128835 SHORE RD	345	129293 SHORE RD	138	2	488.6	770.0	0.49911		0.49911	318.2	599.7				
			C:	128824 EGC DUM	345	128825 EGC PAR	345	1	1488										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.26750	-0.00000	636.8	636.8				
62	573.2	3473.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.0	-379.0	-0.34717		-0.34717	-33.2	-232.2				
			C:	126299 REACBUS	345	147857 DVNPT NK	345	1	199										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1				-0.22952	-0.00000	639.7	639.7				
63	573.9	3474.1	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.7	-379.0	-0.34717		-0.34717	-33.2	-232.4				
			C:	128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				0.22952	0.00000	-638.5	-638.5				
64	575.1	3475.2	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.3	-379.0	-0.34717		-0.34717	-33.2	-232.8				
			C:	128824 EGC DUM	345	128830 HMP HRBR	345	1	1489										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.22952	0.00000	-636.8	-636.8				
65	575.1	3475.2	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.3	-379.0	-0.34717		-0.34717	-33.2	-232.8				
			C:	128824 EGC DUM	345	128825 EGC PAR	345	1	1488										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.22952	-0.00000	636.8	636.8				
66	575.1	3475.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.3	-379.0	-0.34717		-0.34717	-33.2	-232.9				
			C:	SPRN-BRK-345					1884										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.22919	-0.00000	641.1	641.1				
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00065	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22048	0.00000	4.5	4.5				
67	575.1	3475.3	L:	129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.3	-379.0	-0.34717		-0.34717	-33.2	-232.9				
			C:	BUS:EGC_345					1728										
				Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA										
				Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.22919	-0.00000	641.1	641.1				
				Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA										
				Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA										
				Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA										
				Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00065	0.00000	-318.2	-318.2				
				Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22048	0.00000	4.5	4.5				

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68	585.2	3485.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-92.6	-379.0	-0.48938	-0.35563	-44.7	-252.8	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.33883	-0.39475	-141.4	-372.4
69	585.4	3485.5	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	92.5	379.0	0.48938	0.35563	44.6	252.8	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				-0.33883	-0.39475	-141.4	-372.5
70	601.7	3501.9	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-275.6	-450.0	-0.28989	0.00000	-90.1	-90.1	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.28989	1.00000	639.9	1241.6
71	604.1	3504.3	L: 129248 L SUCS	138	129249 L SUCSPH	138	1	-274.9	-450.0	-0.28989	0.00000	-90.1	-90.1	
			C:BUS:SHORE_RD_345					1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.28989	0.50089	319.3	621.9
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.28989	0.49911	318.2	619.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.00513	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.00513	0.00000	-0.0	-0.0
72	614.1	3514.3	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-79.5	-379.0	-0.48761		-0.34717	-33.2	-246.4
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1524						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				0.33714	-0.41657	-137.5	-393.3
73	614.9	3515.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-38.1	-339.0	-0.48938	-0.35563	9.8	-208.8	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				0.33883	-0.39475	-141.4	-384.2
74	658.8	3559.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	116.7	165.0	0.07331	0.04758	108.2	139.6	
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1524						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1				-0.06176	-0.41657	-137.5	-411.9
75	667.9	3568.0	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-56.8	-379.0	-0.48242	-0.35563	-44.7	-282.2	
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1514						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.36521	-0.34717	-33.2	-265.1
76	667.9	3568.1	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	844.1	1512.0	1.00000	1.00000	639.9	1307.8	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.30924	0.00000	-660.2	-660.2
77	668.0	3568.1	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	56.7	379.0	0.48242	0.35563	44.6	282.2	
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1514						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				-0.36521	-0.34717	-33.2	-265.1
78	686.8	3586.9	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-134.8	-379.0	-0.35563	-0.35563	-44.7	-288.9	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				0.13645	0.00000	-660.2	-660.2
79	686.9	3587.1	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	134.7	379.0	0.35563	0.35563	44.6	288.9	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.13645	0.00000	-660.2	-660.2
80	694.5	3594.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-49.2	-379.0	-0.47481	-0.34717	-33.2	-274.3	
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1522						
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				0.35893	-0.35563	-44.7	-291.7
81	694.6	3594.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-49.2	-379.0	-0.47481	-0.34717	-33.2	-274.3	
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1523						
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.35893	0.35563	44.6	291.6
82	695.5	3595.7	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	421.6	770.0	0.50089	0.50089	319.3	667.7	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.15489	0.00000	-660.2	-660.2
83	698.0	3598.1	L: 129270 E.G.C.	138	129288 ROSLYN	138	1	-2.3	-339.0	-0.48242	-0.35563	9.8	-238.4	
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1514						
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1				0.36521	-0.34717	-33.2	-275.5
84	700.1	3600.2	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	811.9	1512.0	1.00000	1.00000	639.9	1340.0	
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1				0.38436	0.00000	447.6	447.6
85	701.0	3601.2	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	420.1	770.0	0.49911	0.49911	318.2	668.1	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.15434	0.00000	-660.2	-660.2
86	703.3	3603.5	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	102.7	165.0	0.08860	0.06095	92.8	135.6	
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1				-0.07004	-0.39475	-141.4	-419.1
87	709.5	3609.7	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-44.7	-297.0	-0.35563				
			Base Case											
88	709.7	3609.8	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	44.6	297.0	0.35563				

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89	727.6	3627.8	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-80.2	-339.0	-0.35563	-0.35563	9.8	-248.9
			C:128842 NEPTCONV	345	128847	NWBRG	345	1						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1			0.13645	0.00000	-660.2	-660.2
90	727.7	3627.8	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	405.5	770.0	0.50089	0.50089	319.3	683.8
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1			0.19252	0.00000	447.6	447.6
91	733.1	3633.3	L: 128835 SHORE RD	345	129293	SHORE RD	138	2	404.1	770.0	0.49911	0.49911	318.2	684.1
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1			0.19184	0.00000	447.6	447.6
92	735.7	3635.9	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-29.7	-379.0	-0.47481	-0.34717	-33.2	-288.6
			C:129270 E.G.C.	138	129288	ROSLYN	138	1						
			Open 129270 E.G.C.	138	129288	ROSLYN	138	1			0.35893	-0.35563	9.8	-251.8
93	737.0	3637.2	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-20.4	339.0	0.48761	0.34717	-66.7	189.1
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1			-0.33714	-0.41657	-137.5	-444.5
95	743.5	3643.7	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-114.6	-379.0	-0.35563	-0.35563	-44.7	-309.1
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1			-0.15618	0.00000	447.6	447.6
97	743.7	3643.8	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	20.2	379.0	0.48242	0.35563	44.6	309.1
			C:129265 CARLE PL	138	129270	E.G.C.	138	1						
			Open 129265 CARLE PL	138	129270	E.G.C.	138	1			0.36521	0.34717	-66.7	191.4
99	745.8	3645.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	80.1	339.0	0.34717	0.34717	-66.7	192.2
			C:126299 REACBUS	345	147857	DVNPT NK	345	1						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1			0.22952	-0.00000	639.7	639.7
100	746.6	3646.7	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	79.8	339.0	0.34717	0.34717	-66.7	192.4
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			-0.22952	0.00000	-638.5	-638.5
101	747.7	3647.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	79.4	339.0	0.34717	0.34717	-66.7	192.8
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			-0.22952	0.00000	-636.8	-636.8
102	747.7	3647.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	79.4	339.0	0.34717	0.34717	-66.7	192.8
			C:128824 EGC DUM	345	128825	EGC PAR	345	1						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			0.22952	-0.00000	636.8	636.8
103	747.8	3647.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	79.4	339.0	0.34717	0.34717	-66.7	192.9
			C:BUS:EGC_345					1728						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			0.22919	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			-0.00065	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			-0.22048	0.00000	4.5	4.5
104	747.8	3647.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	79.4	339.0	0.34717	0.34717	-66.7	192.9
			C:SPRN-BRK-345					1884						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY			0.22919	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			-0.00065	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			-0.22048	0.00000	4.5	4.5
105	753.8	3654.0	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	758.2	1512.0	1.00000	1.00000	639.9	1393.7
			C:128822 E.G.C.-1	345	128825	EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			-0.37168	0.00000	-318.2	-318.2
106	753.8	3654.0	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	758.2	1512.0	1.00000	1.00000	639.9	1393.7
			C:128822 E.G.C.-1	345	129270	E.G.C.	138	1						
			Open 128822 E.G.C.-1	345	129270	E.G.C.	138	1			0.37168	0.00000	318.2	318.2
109	759.9	3660.0	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-33.2	-297.0	-0.34717			
			Base Case											
110	762.5	3662.6	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-195.3	-636.0	-0.57797	-0.41657	-137.5	-455.1
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1			0.40887	-0.39475	-141.4	-442.4

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111	767.2	3667.4	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	9.8	-263.0	-0.35563				
			Base Case												
112	773.6	3673.8*	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	34.2	-339.0	-0.48242	-0.35563	9.8	-265.3	
			C:129265 CARLE PL	138	129270	E.G.C.	138	1	1513						
			Open 129265 CARLE PL	138	129270	E.G.C.	138	1				-0.36521	0.34717	-66.7	201.8
114	780.4	3680.5	L: 129343 NRTHPT P	138	129344	NRTHPT1	138	1	550.0	675.0	0.16013	0.00000	447.6	447.6	
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1458						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.16013	1.00000	639.9	1420.3
115	781.4	3681.6*	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	378.6	770.0	0.50089	0.50089	319.3	710.8	
			C:128822 E.G.C.-1	345	128825	EGC PAR	345	1	1484						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				-0.18617	0.00000	-318.2	-318.2
119	783.0	3683.2	L: 129343 NRTHPT P	138	129344	NRTHPT1	138	1	549.6	675.0	0.16013	0.00000	447.6	447.6	
			C:BUS:SHORE_RD_345												
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				0.16013	0.50089	319.3	711.6
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				0.16013	0.49911	318.2	709.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.02030	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				-0.02030	0.00000	-0.0	-0.0
120	784.0	3684.1	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-196.3	-636.0	-0.56092	-0.39475	-141.4	-450.9	
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1524						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				0.39889	-0.41657	-137.5	-464.1
122	786.9	3687.1*	L: 128835 SHORE RD	345	129293	SHORE RD	138	2	377.2	770.0	0.49911	0.49911	318.2	711.0	
			C:128822 E.G.C.-1	345	128825	EGC PAR	345	1	1484						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				-0.18551	0.00000	-318.2	-318.2
134	795.7	3695.9	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-304.5	-636.0	-0.41657	-0.41657	-137.5	-469.0	
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	199						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1				-0.26113	-0.00000	639.7	639.7
135	796.4	3696.6	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-304.2	-636.0	-0.41657	-0.41657	-137.5	-469.3	
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1468						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1				0.26113	0.00000	-638.5	-638.5
136	796.9	3697.0	L: 129328 ELWOOD 1	138	129671	ELWOOD	69.0	1	89.9	114.0	0.03024				
			Base Case												
137	797.5	3697.7	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1489						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1				0.26113	0.00000	-636.8	-636.8
138	797.5	3697.7	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1488						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1				-0.26113	-0.00000	636.8	636.8
139	797.6	3697.7	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:SPRN-BRK-345												
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.26084	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00058	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.25057	0.00000	4.5	4.5
140	797.6	3697.7	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-303.8	-636.0	-0.41657	-0.41657	-137.5	-469.7	
			C:BUS:EGC_345												
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1							
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.26084	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1				0.00058	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.25057	0.00000	4.5	4.5
144	807.8	3708.0	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	120.2	165.0	0.05545	0.04758	108.2	146.6	
			C:129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	1630						
			Open 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1				0.12921	0.06095	92.8	142.0
152	820.8	3720.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-50.7	339.0	0.47481	0.34717	-66.7	218.2	
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1522						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1				-0.35893	-0.35563	-44.7	-336.6
153	820.8	3720.9	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-50.7	339.0	0.47481	0.34717	-66.7	218.2	
			C:129281 GLNWD GT	138	129288	ROSLYN	138	1	1523						



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			Open 129281	GLNWD GT	138	129288	ROSLYN	138	1		0.35893	0.35563	44.6	336.5	
160	830.0	3730.2	L: 129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	108.6	165.0	0.06792	0.06095	92.8	143.4
			C:129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	1631					
			Open 129283	GLNWD SO	138	129588	GLNWD SO	69.0	1		0.14643	0.04758	108.2	147.7	
200	847.8	3748.0	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-301.3	-636.0	-0.39475	-0.39475	-141.4	-476.1
			C:126299	REACBUS	345	147857	DVNPT NK	345	1	199					
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1		-0.24997	-0.00000	639.7	639.7	
202	848.6	3748.7	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-301.0	-636.0	-0.39475	-0.39475	-141.4	-476.4
			C:128830	HMP HRBR	345	147857	DVNPT NK	345	1	1468					
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1		0.24997	0.00000	-638.5	-638.5	
203	849.7	3749.8	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8
			C:128824	EGC DUM	345	128830	HMP HRBR	345	1	1489					
			Open 128824	EGC DUM	345	128830	HMP HRBR	345	1		0.24997	0.00000	-636.8	-636.8	
204	849.7	3749.8	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8
			C:128824	EGC DUM	345	128825	EGC PAR	345	1	1488					
			Open 128824	EGC DUM	345	128825	EGC PAR	345	1		-0.24997	-0.00000	636.8	636.8	
205	849.7	3749.8	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8
			C:SPRN-BRK-345							1884					
			Open 126298	SPRBROOK	345	126299	REACBUS	345	BY		-0.24968	-0.00000	641.1	641.1	
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824	EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824	EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1		0.00057	0.00000	-318.2	-318.2	
			Open 128823	E.G.C.-2	345	128825	EGC PAR	345	1		0.23987	0.00000	4.5	4.5	
206	849.7	3749.8	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-300.6	-636.0	-0.39475	-0.39475	-141.4	-476.8
			C:BUS:EGC_345							1728					
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298	SPRBROOK	345	126299	REACBUS	345	BY		-0.24968	-0.00000	641.1	641.1	
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824	EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824	EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1		0.00057	0.00000	-318.2	-318.2	
			Open 128823	E.G.C.-2	345	128825	EGC PAR	345	1		0.23987	0.00000	4.5	4.5	
227	859.8	3759.9	L: 129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	95.3	165.0	0.08106	0.06095	92.8	145.2
			C:129281	GLNWD GT	138	129282	GLNWD NO	138	1	1522					
			Open 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-0.05655	-0.35563	-44.7	-350.4	
228	859.8	3760.0	L: 129282	GLNWD NO	138	129587	GLNWD NO	69.0	1	95.3	165.0	0.08106	0.06095	92.8	145.2
			C:129281	GLNWD GT	138	129288	ROSLYN	138	1	1523					
			Open 129281	GLNWD GT	138	129288	ROSLYN	138	1		0.05655	0.35563	44.6	350.4	
239	862.0	3762.1	*L: 129265	CARLE PL	138	129270	E.G.C.	138	1	-70.3	339.0	0.47481	0.34717	-66.7	232.5
			C:129270	E.G.C.	138	129288	ROSLYN	138	1	1516					
			Open 129270	E.G.C.	138	129288	ROSLYN	138	1		-0.35893	-0.35563	9.8	-296.7	
247	863.0	3763.2	L: 129282	GLNWD NO	138	129293	SHORE RD	138	1	-137.5	-497.0	-0.41657			
			Base Case												
292	868.7	3768.9	L: 129282	GLNWD NO	138	129293	SHORE RD	138	1	-151.0	-636.0	-0.55826	-0.41657	-137.5	-499.4
			C:129265	CARLE PL	138	129283	GLNWD SO	138	1	1514					
			Open 129265	CARLE PL	138	129283	GLNWD SO	138	1		0.40812	-0.34717	-33.2	-334.8	
1906	872.6	3772.7	L: 129283	GLNWD SO	138	129588	GLNWD SO	69.0	1	109.7	165.0	0.06335	0.04758	108.2	149.7
			C:129265	CARLE PL	138	129283	GLNWD SO	138	1	1514					
			Open 129265	CARLE PL	138	129283	GLNWD SO	138	1		-0.04543	-0.34717	-33.2	-336.1	
2008	876.9	3777.1	L: 128822	E.G.C.-1	345	128825	EGC PAR	345	1	-468.7	-675.0	-0.23523	0.00000	-318.2	-318.2
			C:126266	DUNWODIE	345	128835	SHORE RD	345	1	1458					
			Open 126266	DUNWODIE	345	128835	SHORE RD	345	1		-0.23523	1.00000	639.9	1516.9	
2009	877.0	3777.1	L: 128822	E.G.C.-1	345	129270	E.G.C.	138	1	468.7	675.0	0.23523	0.00000	318.2	318.2
			C:126266	DUNWODIE	345	128835	SHORE RD	345	1	1458					
			Open 126266	DUNWODIE	345	128835	SHORE RD	345	1		0.23523	1.00000	639.9	1516.9	
2028	879.1	3779.3	L: 128822	E.G.C.-1	345	128825	EGC PAR	345	1	-468.2	-675.0	-0.23523	0.00000	-318.2	-318.2
			C:BUS:SHORE_RD_345							1727					
			Open 128835	SHORE RD	345	129293	SHORE RD	138	1		-0.23523	0.50089	319.3	759.7	
			Open 128835	SHORE RD	345	129293	SHORE RD	138	2		-0.23523	0.49911	318.2	757.0	
			Open 126266	DUNWODIE	345	128835	SHORE RD	345	1		-0.01550	0.00000	2.4	2.4	
			Open 150	DUNWD SW	345	126266	DUNWODIE	345	1		-0.01550	0.00000	-0.0	-0.0	

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2029	879.2	3779.3	L: 128822 E.G.C.-1	345	129270 E.G.C.	138	1	468.2	675.0	0.23523	0.00000	318.2	318.2
			C:BUS:SHORE_RD_345				1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.23523	0.50089	319.3	759.7
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.23523	0.49911	318.2	757.0
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01550	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.01550	0.00000	-0.0	-0.0
2084	889.3	3789.5	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-467.6	-675.0	-0.23319	0.00000	-318.4	-318.4
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.23319	1.00000	639.9	1529.2
2092	890.2	3790.4	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	467.4	675.0	0.23319	0.00000	318.2	318.2
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.23319	1.00000	639.9	1530.1
2104	891.5	3791.7	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1	-467.1	-675.0	-0.23319	0.00000	-318.4	-318.4
			C:BUS:SHORE_RD_345				1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			-0.23319	0.50089	319.3	765.9
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.23319	0.49911	318.2	763.2
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01540	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01540	0.00000	-0.0	-0.0
2116	892.3	3792.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-159.0	-636.0	-0.53461	-0.39475	-141.4	-493.6
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1522					
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1			0.39328	-0.35563	-44.7	-362.0
2119	892.3	3792.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-159.0	-636.0	-0.53461	-0.39475	-141.4	-493.7
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1523					
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1			-0.39328	0.35563	44.6	362.0
2121	892.4	3792.6	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1	466.9	675.0	0.23319	0.00000	318.2	318.2
			C:BUS:SHORE_RD_345				1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.23319	0.50089	319.3	766.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.23319	0.49911	318.2	763.6
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01540	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.01540	0.00000	-0.0	-0.0
2188	897.8	3798.0	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	92.2	165.0	0.08106	0.06095	92.8	147.5
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1516					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			-0.05655	-0.35563	9.8	-309.4
3824	900.8	3800.9	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-141.4	-497.0	-0.39475			
			Base Case										
5579	907.4	3807.5	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	118.1	165.0	0.05172	0.04758	108.2	151.4
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1627					
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1			0.06518	0.06354	151.2	208.9
5660	913.4	3813.6	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	199					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.02587	-0.00000	639.7	639.7
5670	913.9	3814.1	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.02587	0.00000	-638.5	-638.5
5676	914.7	3814.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5
			C:BUS:EGC_345				1728						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02591	-0.00000	641.1	641.1
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02458	0.00000	4.5	4.5
5677	914.7	3814.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5
			C:SPRN-BRK-345				1884						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02591	-0.00000	641.1	641.1
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.2	-318.2
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02458	0.00000	4.5	4.5
5678	914.7	3814.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.5

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			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489												
			Open 128824 EGC DUM		345 128830 HMP HRBR	345	1													
5705	918.5	3818.7	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.3	165.0	0.04758		0.04758	108.2	151.9					
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	199												
			Open 126299 REACBUS		345 147857 DVNPT NK	345	1													
5710	919.0	3819.2	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.3	165.0	0.04758		0.04758	108.2	151.9					
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1468												
			Open 128830 HMP HRBR		345 147857 DVNPT NK	345	1													
5721	919.8	3819.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.2	165.0	0.04758		0.04758	108.2	152.0					
			C:BUS:EGC_345					1728												
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA												
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY					0.02049	-0.00000	641.1	641.1					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA												
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA												
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA												
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1					0.00008	0.00000	-318.2	-318.2					
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1					-0.01939	0.00000	4.5	4.5					
5722	919.8	3819.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.2	165.0	0.04758		0.04758	108.2	152.0					
			C:SPRN-BRK-345					1884												
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY					0.02049	-0.00000	641.1	641.1					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA												
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA												
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA												
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA												
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1					0.00008	0.00000	-318.2	-318.2					
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1					-0.01939	0.00000	4.5	4.5					
5723	919.8	3819.9	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.2	165.0	0.04758		0.04758	108.2	152.0					
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1489												
			Open 128824 EGC DUM		345 128830 HMP HRBR	345	1													
5724	919.8	3819.9	*L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		121.2	165.0	0.04758		0.04758	108.2	152.0					
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1488												
			Open 128824 EGC DUM		345 128825 EGC PAR	345	1													
5778	932.4	3832.5	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1		-137.5	-636.0	-0.53461		-0.39475	-141.4	-509.5					
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1516												
			Open 129270 E.G.C.		138 129288 ROSLYN	138	1					0.39328	-0.35563	9.8	-321.7					
9158	941.8	3841.9	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-110.2	-636.0	-0.55826		-0.41657	-137.5	-529.8					
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1513												
			Open 129265 CARLE PL		138 129270 E.G.C.	138	1													
9335	949.8	3850.0	L: 129265 CARLE PL	138	129270 E.G.C.	138	1		-66.7	263.0	0.34717			-66.7	260.2					
			Base Case																	
9357	952.8	3852.9	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1		-239.1	-636.0	-0.41657		-0.41657	-137.5	-534.4					
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492												
			Open 128842 NEPTCONV		345 128847 NWBRG	345	1													
9518	979.8	3880.0	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		48.1	235.0	0.19077									
			Base Case																	
10900	981.0	3881.2	L: 126299 REACBUS	345	147857 DVNPT NK	345	1		939.5	1399.0	0.46842		-0.00000	639.7	639.7					
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458												
			Open 126266 DUNWODIE		345 128835 SHORE RD	345	1					0.46842	1.00000	639.9	1621.0					
11140	983.2	3883.4	L: 126299 REACBUS	345	147857 DVNPT NK	345	1		938.4	1399.0	0.46842		-0.00000	639.7	639.7					
			C:BUS:SHORE_RD_345					1727												
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.46842	0.50089	319.3	811.8					
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.46842	0.49911	318.2	809.0					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.03090	0.00000	2.4	2.4					
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1					0.03090	0.00000	-0.0	-0.0					
11193	987.3	3887.4	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1		-936.5	-1399.0	-0.46842		0.00000	-636.8	-636.8					
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458												
			Open 126266 DUNWODIE		345 128835 SHORE RD	345	1					-0.46842	1.00000	639.9	1627.2					
11194	987.3	3887.4	L: 128824 EGC DUM	345	128825 EGC PAR	345	1		936.5	1399.0	0.46842		-0.00000	636.8	636.8					
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458												
			Open 126266 DUNWODIE		345 128835 SHORE RD	345	1					0.46842	1.00000	639.9	1627.2					
11224	989.5	3889.6	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1		-935.5	-1399.0	-0.46842		0.00000	-636.8	-636.8					
			C:BUS:SHORE_RD_345					1727												
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1					-0.46842	0.50089	319.3	815.0					

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			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			-0.46842	0.49911	318.2	812.1
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.03090	0.00000	-0.0	-0.0
11225	989.5	3889.6	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	935.5	1399.0	0.46842	-0.00000	636.8	636.8
			C:BUS:SHORE_RD_345									1727	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46842	0.50089	319.3	815.0
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46842	0.49911	318.2	812.1
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.03090	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.03090	0.00000	-0.0	-0.0
13055	1018.7	3918.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	333.1	383.0	0.04899	0.03958	267.3	307.6
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					280	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11472	-0.08202	-573.8	-657.3
13057	1020.4	3920.5	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	48.2	235.0	0.18310			
			Base Case										
13088	1038.3	3938.5	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	332.5	383.0	0.04866	0.03958	267.3	308.4
			C:SER:HCWC/NWES									1713	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.00556	-0.01172	53.7	41.6
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11488	-0.08202	-573.8	-658.9
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00931	-0.04397	-44.4	-90.1
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
13089	1039.6	3939.7	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-218.0	-378.0	-0.15396			
			Base Case										
13094	1054.2	3954.4	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	331.2	383.0	0.04911	0.03958	267.3	309.0
			C:SER:HC-WC_30&W-F_171									1707	
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.04708	0.01247	-22.3	-9.2
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11405	-0.08202	-573.8	-660.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00954	-0.04397	-44.4	-90.8
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
13112	1069.9	3970.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-330.6	-383.0	-0.04899	-0.03958	-264.8	-307.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1					280	
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.11472	-0.08202	-573.8	-661.5
13114	1073.1	3973.2	L: 147827 MARCY765	765	147833 MARCY T1	345	1	1585.2	1654.0	0.06414	0.03598	888.3	926.9
			C:147827 MARCY765	765	147833 MARCY T1	345	2					1313	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.89997	0.03129	774.4	807.9
13127	1089.9	3990.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-330.0	-383.0	-0.04866	-0.03958	-264.8	-307.9
			C:SER:HCWC/NWES									1713	
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.00556	-0.01172	53.7	41.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.11488	-0.08202	-573.8	-663.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00931	-0.04397	-44.4	-92.3
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
13146	1105.3	4005.5	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-328.7	-383.0	-0.04911	-0.03958	-264.8	-308.5
			C:SER:HC-WC_30&W-F_171									1707	
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.04708	0.01247	-22.3	-8.6
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.11405	-0.08202	-573.8	-664.4
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00954	-0.04397	-44.4	-93.0
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA				
13288	1164.1	4064.3	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	79.0	118.0	0.03352			
			Base Case										
13289	1164.1	4064.3	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	79.0	118.0	0.03352			
			Base Case										
13399	1168.3	4068.4	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	55.3	253.0	0.16927			
			Base Case										
15085	1178.8	4079.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	329.6	383.0	0.04526	0.03958	267.3	313.9
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.11472	0.04947	543.7	602.0



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			Base Case											
22328	1366.9	4267.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-959.7	-1207.0	-0.18091				
			Base Case											
22329	1381.8	4281.9	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	151.2	239.0	0.06354				
			Base Case											
22337	1431.6	4331.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	331.1	383.0	0.03625	0.03958	267.3	323.9	
			C:BUS:WATERCURE_345				1738							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1	-0.04492	-0.08202	-573.8	-691.2			
			Open 130757 WATRC345	345	130768 WATRC230	230	1	0.15972	-0.04394	238.3	175.4			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1	-0.03652	0.00000	-0.0	-0.0			
22338	1432.8	4332.9	L: Interface 56 K-to-I					-1478.2	-2911.0	-1.00000	-1.00000	-1279.6	-2712.4	
			C:128880 SHMHVDCL				192	129459 SHOREHAM	138	1	1497			
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1	0.59419	0.00000	-334.2	-334.2			
22339	1432.8	4332.9	L: Interface 55 I-to-K					1478.2	2911.0	1.00000	1.00000	1279.6	2712.4	
			C:128880 SHMHVDCL				192	129459 SHOREHAM	138	1	1497			
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1	-0.59419	0.00000	-334.2	-334.2			
22340	1460.8	4361.0	L: 129234 VLY STRM	138	129271 E.G.C.-2	138	1	-117.1	-211.0	-0.06431				
			Base Case											
22341	1463.1	4363.3	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	111.8	165.0	0.03639	0.03024	89.9	134.1	
			C:129333 GRENLAWN				138	129677 GRENLAWN	69.0	1	1637			
			Open 129333 GRENLAWN	138	129677 GRENLAWN	69.0	1	0.26844	0.02291	81.4	114.9			
22342	1484.6	4384.7	L: Interface 14 DUNWOODIE-SO					4825.4	6310.0	1.00000				
			Base Case											
22343	1500.8	4401.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-328.6	-383.0	-0.03625	-0.03958	-264.8	-324.2	
			C:BUS:WATERCURE_345				1738							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1	0.04492	-0.08202	-573.8	-696.9			
			Open 130757 WATRC345	345	130768 WATRC230	230	1	-0.15972	-0.04394	238.3	172.4			
			Open 130755 OAKDL345	345	130757 WATRC345	345	1	0.03652	0.00000	-0.0	-0.0			
22344	1503.6	4403.7	L: Interface 56 K-to-I					-1407.4	-2911.0	-1.00000	-1.00000	-1279.6	-2783.2	
			C:SIN:250				1783							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00002	0.00000	-0.0	-0.0			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22345	1503.6	4403.7	L: Interface 55 I-to-K					1407.4	2911.0	1.00000	1.00000	1279.6	2783.2	
			C:SIN:250				1783							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22346	1506.0	4406.2	L: Interface 56 K-to-I					-1405.0	-2911.0	-1.00000	-1.00000	-1279.6	-2785.6	
			C:GEN:MLS3&OMS				1679							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	0.00002	0.00000	-0.0	-0.0			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22347	1506.0	4406.2	L: Interface 55 I-to-K					1405.0	2911.0	1.00000	1.00000	1279.6	2785.6	
			C:GEN:MILLST 3				1677							
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22348	1506.0	4406.2	L: Interface 55 I-to-K					1405.0	2911.0	1.00000	1.00000	1279.6	2785.6	
			C:GEN:MLS3&OMS				1679							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2	-0.00002	0.00000	-0.0	-0.0			
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22349	1506.0	4406.2	L: Interface 56 K-to-I					-1405.0	-2911.0	-1.00000	-1.00000	-1279.6	-2785.6	
			C:GEN:MILLST 3				1677							
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch								
22350	1507.1	4407.3	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	11.4	498.0	0.32284	0.16927	55.3	310.4	
			C:129270 E.G.C.				138	129271 E.G.C.-2	138	1	1515			
			Open 129270 E.G.C.	138	129271 E.G.C.-2	138	1	0.41025	0.37433	-106.8	457.4			
22351	1515.2	4415.4	L: Interface 55 I-to-K					1447.7	2911.0	0.96576	1.00000	1279.6	2794.8	
			C:129026 NRTPTG3				22.0	129342 NRTHPRT2	138	1	1611			
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	-0.59281	0.05776	-283.5	-195.9			
22352	1515.2	4415.4	L: Interface 56 K-to-I					-1447.7	-2911.0	-0.96576	-1.00000	-1279.6	-2794.8	
			C:129026 NRTPTG3				22.0	129342 NRTHPRT2	138	1	1611			
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	0.59281	0.05776	-283.5	-195.9			
22353	1521.9	4422.1	L: Interface 56 K-to-I					-1438.3	-2911.0	-0.96767	-1.00000	-1279.6	-2801.5	
			C:129024 NRTPTG1				22.0	129346 NRTHPT3	138	1	1609			
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	0.55967	0.05776	-283.5	-195.6			
22354	1521.9	4422.1	L: Interface 55 I-to-K					1438.3	2911.0	0.96767	1.00000	1279.6	2801.5	

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			C:129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	1609									
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1									
22355	1524.9	4425.0	L: Interface	56	K-to-I														
			C:129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1	1612									
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1									
22356	1524.9	4425.0	L: Interface	55	I-to-K														
			C:129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1	1612									
			Open	129027	NRTPTG4	22.0	129342	NRTHPRT2	138	1									
22359	1530.9	4431.1	*L: Interface	55	I-to-K														
			C:129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1	1610									
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1									
22360	1530.9	4431.1	*L: Interface	56	K-to-I														
			C:129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1	1610									
			Open	129025	NRTPTG2	22.0	129341	NRTHPRT1	138	1									
22361	1531.5	4431.6	L: 129244	GRT NECK	138	129537	GRT NECK	69.0	1										
			C:129248	L SUCS	138	129543	LKE SCSS	69.0	1	1627									
			Open	129248	L SUCS	138	129543	LKE SCSS	69.0	1									
22362	1531.5	4431.6	L: 129244	GRT NECK	138	129537	GRT NECK	69.0	2										
			C:129248	L SUCS	138	129543	LKE SCSS	69.0	1	1627									
			Open	129248	L SUCS	138	129543	LKE SCSS	69.0	1									
22367	1545.8	4445.9	L: Interface	17	I-TO-J+K														
			Base Case																
22368	1548.7	4448.8	L: 129310	NEWBRGE	138	129361	RULND RD	138	1										
			C:129310	NEWBRGE	138	129361	RULND RD	138	2	1532									
			Open	129310	NEWBRGE	138	129361	RULND RD	138	2									
22369	1548.7	4448.8	L: 129310	NEWBRGE	138	129361	RULND RD	138	2										
			C:129310	NEWBRGE	138	129361	RULND RD	138	1	1531									
			Open	129310	NEWBRGE	138	129361	RULND RD	138	1									
22381	1566.5	4466.6	L: 129310	NEWBRGE	138	129361	RULND RD	138	2										
			C:129305	LCST GRV	138	129310	NEWBRGE	138	1	1528									
			Open	129305	LCST GRV	138	129310	NEWBRGE	138	1									
22382	1566.5	4466.6	L: 129310	NEWBRGE	138	129361	RULND RD	138	1										
			C:129305	LCST GRV	138	129310	NEWBRGE	138	1	1528									
			Open	129305	LCST GRV	138	129310	NEWBRGE	138	1									
22383	1576.2	4476.3	L: 129339	KINGS HWY	138	129355	PILGRIM	138	1										
			C:128880	SHMHVDCL	192	129459	SHOREHAM	138	1	1497									
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1									
22384	1576.9	4477.0	L: 129310	NEWBRGE	138	129361	RULND RD	138	2										
			Base Case																
22385	1576.9	4477.0	L: 129310	NEWBRGE	138	129361	RULND RD	138	1										
			Base Case																
22386	1577.6	4477.8	L: 129339	KINGS HWY	138	129427	HOLTS GT	138	1										
			C:128880	SHMHVDCL	192	129459	SHOREHAM	138	1	1497									
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1									
22387	1579.1	4479.3	L: 129339	KINGS HWY	138	129355	PILGRIM	138	1										
			C:129361	RULND RD	138	129362	RUL PAR	138	1	1558									
			Open	129361	RULND RD	138	129362	RUL PAR	138	1									
22388	1579.4	4479.6	L: 129339	KINGS HWY	138	129355	PILGRIM	138	1										
			C:129362	RUL PAR	138	129421	HOLBROOK	138	1	1560									
			Open	129362	RUL PAR	138	129421	HOLBROOK	138	1									
22397	1580.6	4480.7	L: 129339	KINGS HWY	138	129427	HOLTS GT	138	1										
			C:129361	RULND RD	138	129362	RUL PAR	138	1	1558									
			Open	129361	RULND RD	138	129362	RUL PAR	138	1									
22398	1580.9	4481.0	L: 129339	KINGS HWY	138	129427	HOLTS GT	138	1										
			C:129362	RUL PAR	138	129421	HOLBROOK	138	1	1560									
			Open	129362	RUL PAR	138	129421	HOLBROOK	138	1									
22427	1591.8	4491.9	L: 129310	NEWBRGE	138	129361	RULND RD	138	2										
			C:129310	NEWBRGE	138	129361	RULND RD	138	3	1533									
			Open	129310	NEWBRGE	138	129361	RULND RD	138	3									
22428	1591.8	4491.9	L: 129310	NEWBRGE	138	129361	RULND RD	138	1										
			C:129310	NEWBRGE	138	129361	RULND RD	138	3	1533									
			Open	129310	NEWBRGE	138	129361	RULND RD	138	3									
22441	1595.6	4495.8	L: 129244	GRT NECK	138	129537	GRT NECK	69.0	1										

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			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1524											
			Open 129282 GLNWD NO		138 129293 SHORE RD		138	1											
22442	1595.6	4495.8	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.6	165.0	0.05042		0.03352	79.0	132.5				
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1524											
			Open 129282 GLNWD NO		138 129293 SHORE RD		138	1											
22496	1623.6	4523.8	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		97.8	165.0	0.04141		0.03352	79.0	133.4				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1628											
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0	2					0.13588	0.05810	138.2	232.5			
22497	1623.6	4523.8	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		97.8	165.0	0.04141		0.03352	79.0	133.4				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1628											
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0	2					0.13588	0.05810	138.2	232.5			
25945	1650.2	4550.3	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.5	165.0	0.04881		0.03352	79.0	134.3				
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525											
			Open 129283 GLNWD SO		138 129293 SHORE RD		138	1											
25946	1650.2	4550.3	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		84.5	165.0	0.04881		0.03352	79.0	134.3				
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1525											
			Open 129283 GLNWD SO		138 129293 SHORE RD		138	1											
25985	1660.6	4560.7	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		174.2	491.0	0.19077		0.19077	48.1	364.9				
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492											
			Open 128842 NEPTCONV		345 128847 NWBRG		345	1											
25988	1662.4	4562.6	L: Interface 15 I-to-K						1709.6	3372.0	1.00000		1.00000	1278.5	2940.9				
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492											
			Open 128842 NEPTCONV		345 128847 NWBRG		345	1											
25989	1664.5	4564.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		133.9	339.0	0.12323		0.12323	68.7	273.8				
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549											
			Open 129343 NRTHPT P		138 129344 NRTHPT1		138	1					0.14568	0.00000	447.6	447.6			
25990	1664.5	4564.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	1		133.9	339.0	0.12323		0.12323	68.7	273.8				
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549											
			Open 129343 NRTHPT P		138 129344 NRTHPT1		138	1					0.14568	0.00000	447.6	447.6			
26005	1671.8	4572.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1		-244.0	-636.0	-0.23449		-0.23449	-179.8	-571.9				
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1542											
			Open 129337 HAUPAGUE		138 129356 PILGRM P		138	1					0.38869	0.00000	-165.0	-165.0			
26006	1671.8	4572.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1		-244.0	-636.0	-0.23449		-0.23449	-179.8	-571.9				
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1554											
			Open 129355 PILGRIM		138 129356 PILGRM P		138	1					-0.38869	0.00000	165.0	165.0			
26009	1673.3	4573.4	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1		243.6	636.0	0.23449		0.23449	179.5	571.9				
			C:129337 HAUPAGUE	138	129356 PILGRM P	138	1	1542											
			Open 129337 HAUPAGUE		138 129356 PILGRM P		138	1					-0.38869	0.00000	-165.0	-165.0			
26010	1673.3	4573.4	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1		243.6	636.0	0.23449		0.23449	179.5	571.9				
			C:129355 PILGRIM	138	129356 PILGRM P	138	1	1554											
			Open 129355 PILGRIM		138 129356 PILGRM P		138	1					0.38869	0.00000	165.0	165.0			
26019	1675.8	4575.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		89.1	339.0	0.14915		0.12323	68.7	275.2				
			C:129305 LCST GRV	138	129315 SYOSSET	138	1	1529											
			Open 129305 LCST GRV		138 129315 SYOSSET		138	1					0.16832	0.15396	121.1	379.1			
26020	1675.8	4575.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	1		89.1	339.0	0.14915		0.12323	68.7	275.2				
			C:129305 LCST GRV	138	129315 SYOSSET	138	1	1529											
			Open 129305 LCST GRV		138 129315 SYOSSET		138	1					0.16832	0.15396	121.1	379.1			
26051	1691.2	4591.3	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		64.3	491.0	0.25233		0.19077	48.1	370.7				
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	2	1519											
			Open 129271 E.G.C.-2		138 129310 NEWBRGE		138	2					0.33621	0.18310	48.2	357.8			
26070	1713.1	4613.3	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		66.7	491.0	0.24770		0.19077	48.1	374.9				
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3	1518											
			Open 129270 E.G.C.		138 129310 NEWBRGE		138	3					0.33631	0.16927	55.3	345.2			
26073	1725.8	4626.0	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2		64.3	491.0	0.24723		0.18310	48.2	364.2				
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1	1517											
			Open 129270 E.G.C.		138 129310 NEWBRGE		138	1					0.33614	0.19077	48.1	377.3			
26074	1730.3	4630.5	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1		194.0	335.0	0.08151		0.06354	151.2	261.1				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1628											
			Open 129248 L SUCS		138 129543 LKE SCSS		69.0	2					0.30935	0.05810	138.2	238.7			
26083	1734.7	4634.9	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2		138.2	239.0	0.05810								
			Base Case																
26084	1737.1	4637.2	L: Interface 15 I-to-K						1634.9	3372.0	1.00000		1.00000	1278.5	3015.5				
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549											



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			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		0.79645	0.00000	447.6	447.6	
26085	1737.2	4637.3	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	172.9	491.0	0.18310	0.18310	48.2	366.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492					
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1		-0.18896	0.00000	-660.2	-660.2	
26086	1747.9	4648.1	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-328.9	-598.0	-0.15396	-0.15396	-218.0	-487.1
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		-0.24788	0.00000	447.6	447.6	
26087	1781.1	4681.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	119.5	339.0	0.12323	0.12323	68.7	288.2
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		-0.15209	0.00000	-334.2	-334.2	
26088	1781.1	4681.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	119.5	339.0	0.12323	0.12323	68.7	288.2
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		-0.15209	0.00000	-334.2	-334.2	
26089	1786.8	4686.9	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	66.0	491.0	0.23784	0.18310	48.2	375.3
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3	1518					
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3		0.32340	0.16927	55.3	357.7	
26094	1795.1	4695.2	L: 129355 PILGRIM	138	129686 PILGRM	69.0	1	274.9	335.0	0.03350	0.02276	186.8	227.7
			C:129355 PILGRIM	138	129686 PILGRM	69.0	2	1639					
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	2		0.49968	0.02149	176.2	214.7	
26095	1801.5	4701.7	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-213.6	-636.0	-0.23449	-0.23449	-179.8	-602.3
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1	1543					
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1		-0.38869	0.00000	86.8	86.8	
26096	1803.0	4703.1	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	213.2	636.0	0.23449	0.23449	179.5	602.3
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1	1543					
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1		0.38869	0.00000	86.8	86.8	
26097	1806.9	4707.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-188.3	-636.0	-0.24775	-0.23449	-179.8	-603.5
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.01327	1.00000	639.9	2446.8	
26098	1807.0	4707.2	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-188.3	-636.0	-0.24775	-0.23449	-179.8	-603.6
			C:BUS:SHORE_RD_345				1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		-0.01327	0.50089	319.3	1224.5	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		-0.01327	0.49911	318.2	1220.1	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.00165	0.00000	2.4	2.4	
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		0.00165	0.00000	-0.0	-0.0	
26099	1808.3	4708.4	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	188.0	636.0	0.24775	0.23449	179.5	603.5
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1458					
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		0.01327	1.00000	639.9	2448.2	
26100	1808.4	4708.6	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	188.0	636.0	0.24775	0.23449	179.5	603.5
			C:BUS:SHORE_RD_345				1727						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1		0.01327	0.50089	319.3	1225.2	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2		0.01327	0.49911	318.2	1220.8	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1		-0.00165	0.00000	2.4	2.4	
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1		-0.00165	0.00000	-0.0	-0.0	
26101	1813.5	4713.6	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	145.0	491.0	0.19077	0.19077	48.1	394.0
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549					
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		0.21664	0.00000	447.6	447.6	
26102	1817.8	4717.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1530					
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1		0.17881	0.16480	-40.6	259.0	
26103	1817.8	4717.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1	1530					
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1		0.17881	0.16480	-40.6	259.0	
26104	1817.8	4718.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1536					
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1		-0.17881	-0.16480	40.6	-259.0	
26105	1817.8	4718.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.4	339.0	0.15270	0.12323	68.7	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1	1536					
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1		-0.17881	-0.16480	40.6	-259.0	
26106	1821.1	4721.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	2	1626					
			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	2		0.17839	0.03352	79.0	140.0	
26107	1821.1	4721.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	1	1625					

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			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	1		0.17839	0.03352	79.0	140.0	
26108	1837.6	4737.7	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-226.0	-636.0	-0.22312	-0.23449	-179.8	-610.7
			C:129092 PTJFEG3	20.0	129448 PT JEFF1	138	1						
			Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1		0.24872	0.04569	-185.6	-101.6	
26109	1839.1	4739.3	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.7	636.0	0.22312	0.23449	179.5	610.7
			C:129092 PTJFEG3	20.0	129448 PT JEFF1	138	1						
			Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1		-0.24872	0.04569	-185.6	-101.5	
26110	1839.2	4739.3	*L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-225.4	-636.0	-0.22327	-0.23449	-179.8	-611.1
			C:129093 PTJFEG4	20.0	129449 PT JEFF2	138	1						
			Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1		0.24873	0.04507	-183.0	-100.1	
26111	1840.7	4740.8	*L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.0	636.0	0.22327	0.23449	179.5	611.1
			C:129093 PTJFEG4	20.0	129449 PT JEFF2	138	1						
			Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1		-0.24873	0.04507	-183.0	-100.0	
26112	1844.8	4745.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	57.3	339.0	0.15270	0.12323	68.7	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1						
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1		0.17881	0.16480	-63.7	240.4	
26113	1844.8	4745.0	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	57.3	339.0	0.15270	0.12323	68.7	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1						
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1		0.17881	0.16480	-63.7	240.4	
26115	1854.3	4754.5	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	105.4	165.0	0.03213	0.03024	89.9	146.0
			C:129355 PILGRIM	138	129686 PILGRM	69.0	1						
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	1		0.08306	0.02276	186.8	229.0	
26123	1870.9	4771.0	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	62.0	491.0	0.22931	0.19077	48.1	405.0
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	4						
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	4		0.30362	0.12692	45.8	283.3	
26125	1872.9	4773.0	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	70.2	498.0	0.22844	0.16927	55.3	372.3
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	1		0.31016	0.19077	48.1	405.4	
26126	1873.2	4773.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	301.1	383.0	0.04370	0.03958	267.3	341.4
			C:130755 OAKDL345	345	131128 LAPEER	345	1						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1		-0.06204	-0.06638	-545.9	-670.3	
26128	1875.1	4775.2	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	160.9	335.0	0.09286	0.06354	151.2	270.3
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1		-0.07039	-0.41657	-137.5	-918.6	
26139	1892.9	4793.0	*L: 129310 NEWBRGE	138	129361 RULND RD	138	2	79.4	339.0	0.13717	0.12323	68.7	301.9
			C:129339 KINGS HWY	138	129355 PILGRIM	138	1						
			Open 129339 KINGS HWY	138	129355 PILGRIM	138	1		-0.05941	-0.23449	-179.8	-623.7	
26140	1892.9	4793.0	*L: 129310 NEWBRGE	138	129361 RULND RD	138	1	79.4	339.0	0.13717	0.12323	68.7	301.9
			C:129339 KINGS HWY	138	129355 PILGRIM	138	1						
			Open 129339 KINGS HWY	138	129355 PILGRIM	138	1		-0.05941	-0.23449	-179.8	-623.7	
26145	1895.0	4795.1	L: Interface 15 I-to-K					1477.0	3372.0	1.00000	1.00000	1278.5	3173.4
			C:128880 SHMVDCL	192	129459 SHOREHAM	138	1						
			Open 128880 SHMVDCL	192	129459 SHOREHAM	138	1		-0.59419	0.00000	-334.2	-334.2	
26146	1895.1	4795.3	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	144.0	491.0	0.18310	0.18310	48.2	395.2
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1		0.21412	0.00000	447.6	447.6	
26147	1895.4	4795.5	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	161.3	335.0	0.09166	0.06354	151.2	271.6
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1						
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1		-0.07123	-0.39475	-141.4	-889.6	
26160	1903.9	4804.0	L: 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1	104.1	165.0	0.03197	0.03024	89.9	147.5
			C:129355 PILGRIM	138	129686 PILGRM	69.0	2						
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	2		0.08074	0.02149	176.2	217.1	
26169	1908.1	4808.2	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	4	45.8	288.0	0.12692			
			Base Case										
26176	1913.4	4813.5	L: 129270 E.G.C.	138	129310 NEWBRGE	138	3	69.6	498.0	0.22389	0.16927	55.3	379.1
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	2						
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	2		0.29831	0.18310	48.2	398.5	
26178	1916.3	4816.4	L: 129333 GRENLAWN	138	129677 GRENLAWN	69.0	1	104.9	164.0	0.03082	0.02291	81.4	125.3
			C:129328 ELWOOD 1	138	129671 ELWOOD	69.0	1						
			Open 129328 ELWOOD 1	138	129671 ELWOOD	69.0	1		0.26159	0.03024	89.9	147.8	
26180	1919.2	4819.3	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	62.6	491.0	0.22320	0.18310	48.2	399.6
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	4						
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	4		0.31593	0.12692	45.8	289.4	

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26181	1919.4	4819.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	3	65.6	285.0	0.11431					
			Base Case												
26223	1926.8	4826.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	296.6	383.0	0.04484	0.03958	267.3	343.5		
			C:130774 BATH 115	115	131347 HOWARD	115	1	298							
			Open 130774 BATH 115	115	131347 HOWARD	115	1				-0.28686	-0.01831	-102.3	-137.6	
26237	1929.8	4829.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	301.6	383.0	0.04217	0.03958	267.3	343.7		
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	461							
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.05471	-0.04723	-627.9	-719.0	
26243	1930.6	4830.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-298.6	-383.0	-0.04370	-0.03958	-264.8	-341.2		
			C:130755 OAKDL345	345	131128 LAPEER	345	1	276							
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.06204	-0.06638	-545.9	-674.1	
27983	1965.7	4865.9	L: Interface	15	I-to-K			1406.3	3372.0	1.00000	1.00000	1278.5	3244.2		
			C:SIN:250					1783							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00002	0.00000	-0.0	-0.0	
			Remove unit 3	from bus	103563 MILL#3	24.0		1284.7	MW	dispatch					
27984	1968.2	4868.3	L: Interface	15	I-to-K			1403.8	3372.0	1.00000	1.00000	1278.5	3246.6		
			C:GEN:MILLST 3					1677							
			Remove unit 3	from bus	103563 MILL#3	24.0		1284.7	MW	dispatch					
27985	1968.2	4868.3	L: Interface	15	I-to-K			1403.8	3372.0	1.00000	1.00000	1278.5	3246.6		
			C:GEN:MLS3&OMS					1679							
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00002	0.00000	-0.0	-0.0	
			Remove unit 3	from bus	103563 MILL#3	24.0		1284.7	MW	dispatch					
27986	1993.8	4893.9	L: Interface	15	I-to-K			1446.5	3372.0	0.96576	1.00000	1278.5	3272.2		
			C:129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1611							
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1				-0.59281	0.05776	-283.5	-168.3	
27987	1999.5	4899.7	L: Interface	15	I-to-K			1437.1	3372.0	0.96767	1.00000	1278.5	3278.0		
			C:129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1	1609							
			Open 129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1				-0.55967	0.05776	-283.5	-168.0	
27988	2000.6	4900.8	L: Interface	15	I-to-K			1428.5	3372.0	0.97142	1.00000	1278.5	3279.1		
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612							
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				-0.59281	0.04821	-253.2	-156.7	
27993	2005.9	4906.1	L: Interface	15	I-to-K			1420.2	3372.0	0.97302	1.00000	1278.5	3284.4		
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1610							
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				-0.55965	0.04821	-253.3	-156.6	
29465	2230.8	5131.0	L: Interface	20	LI SUM			2010.2	4241.0	1.00000	1.00000	1454.1	3684.9		
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1492							
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1				-0.84227	0.00000	-660.2	-660.2	
29468	2339.3	5239.5	L: Interface	20	LI SUM			1901.7	4241.0	1.00000	1.00000	1454.1	3793.4		
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1549							
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1				1.00000	0.00000	447.6	447.6	
29472	2404.0	5304.2	L: Interface	78	LIPA Export			-3184.8	-5450.0	-0.94224	-1.00000	-2901.3	-5305.4		
			C:129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1	1609							
			Open 129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1				1.00000	0.05776	-283.5	-144.6	
29473	2404.1	5304.2	L: Interface	78	LIPA Export			-3184.8	-5450.0	-0.94224	-1.00000	-2901.3	-5305.4		
			C:129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1611							
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1				1.00000	0.05776	-283.5	-144.6	
29474	2411.7	5311.8	L: Interface	78	LIPA Export			-3154.6	-5450.0	-0.95179	-1.00000	-2901.3	-5313.0		
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1610							
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				1.00000	0.04821	-253.3	-137.0	
29475	2411.8	5311.9	L: Interface	78	LIPA Export			-3154.5	-5450.0	-0.95179	-1.00000	-2901.3	-5313.1		
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612							
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				1.00000	0.04821	-253.2	-136.9	
29476	2476.3	5376.4	L: Interface	78	LIPA Export			-3086.9	-5450.0	-0.95431	-1.00000	-2901.3	-5377.6		
			C:129092 PTJFEG3	20.0	129448 PT JEFF1	138	1	1617							
			Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1				1.00000	0.04569	-185.6	-72.4	
29477	2476.7	5376.9	L: Interface	78	LIPA Export			-3084.9	-5450.0	-0.95493	-1.00000	-2901.3	-5378.0		
			C:128900 BARETG1	20.0	129202 BARRETT1	138	1	1603							
			Open 128900 BARETG1	20.0	129202 BARRETT1	138	1				1.00000	0.04507	-183.6	-72.0	
29478	2477.3	5377.5	L: Interface	78	LIPA Export			-3084.3	-5450.0	-0.95493	-1.00000	-2901.3	-5378.7		
			C:129093 PTJFEG4	20.0	129449 PT JEFF2	138	1	1618							
			Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1				1.00000	0.04507	-183.0	-71.3	
29479	2477.4	5377.6	L: Interface	78	LIPA Export			-3084.2	-5450.0	-0.95493	-1.00000	-2901.3	-5378.8		
			C:128901 BARETG2	20.0	129203 BARRETT2	138	1	1604							

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				Open 128901 BARETG2	20.0	129203 BARRETT2	138	1		1.00000	0.04507	-182.9	-71.2	
29480	2514.2	5414.4	L:	Interface 78 LIPA Export					-3064.7	-5450.0	-0.94871	-1.00000	-2901.3	-5415.5
			C:	121102 STARS-01102	13.8	129361 RULND RD	138	02	1599					
				Open 121102 STARS-01102	13.8	129361 RULND RD	138	02		1.00000	0.05129	-163.4	-34.5	
29481	2514.2	5414.4	*L:	Interface 78 LIPA Export					-3064.7	-5450.0	-0.94871	-1.00000	-2901.3	-5415.5
			C:	121101 STARS-01101	13.8	129361 RULND RD	138	01	1598					
				Open 121101 STARS-01101	13.8	129361 RULND RD	138	01		1.00000	0.05129	-163.4	-34.5	
29487	2529.7	5429.8	L:	Interface 20 LI SUM					1711.3	4241.0	1.00000	1.00000	1454.1	3983.8
			C:	128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1497					
				Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1		-0.76957	0.00000	-334.2	-334.2	
30966	2598.6	5498.7	L:	Interface 20 LI SUM					1642.4	4241.0	1.00000	1.00000	1454.1	4052.7
			C:	SIN:250					1783					
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0	
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW			dispatch					
30967	2603.6	5503.8	L:	Interface 20 LI SUM					1637.4	4241.0	1.00000	1.00000	1454.1	4057.7
			C:	GEN:MLS3&OMS					1679					
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0	
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW			dispatch					
30968	2603.6	5503.8	L:	Interface 20 LI SUM					1637.4	4241.0	1.00000	1.00000	1454.1	4057.7
			C:	GEN:MILLST 3					1677					
				Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW			dispatch					
30969	2651.5	5551.6	L:	Interface 20 LI SUM					1589.5	4241.0	1.00000	1.00000	1454.1	4105.6
			C:	GEN:SEAB&OMS					1680					
				Open 100508 SANDB115	115	100509 SB RCTOR	115	2		-0.00003	0.00000	-0.0	-0.0	
				Remove unit 1 from bus 102869 SBRK G1	25.0	1327.0 MW			dispatch					
30970	2651.5	5551.6	L:	Interface 20 LI SUM					1589.5	4241.0	1.00000	1.00000	1454.1	4105.6
			C:	GEN:SEABROOK					1678					
				Remove unit 1 from bus 102869 SBRK G1	25.0	1327.0 MW			dispatch					
30971	2688.5	5588.7	L:	Interface 20 LI SUM					1671.7	4241.0	0.95566	1.00000	1454.1	4142.6
			C:	129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1611					
				Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1		-0.76758	0.05776	-283.5	-128.2	
30972	2692.2	5592.3	*L:	Interface 20 LI SUM					1648.4	4241.0	0.96300	1.00000	1454.1	4146.3
			C:	129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612					
				Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1		-0.76758	0.04821	-253.2	-123.4	
32444	2894.6	5794.7	L:	Interface 19 LIPA IMPORT					3183.6	5911.0	0.94224	1.00000	2900.1	5794.7
			C:	129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1	1609					
				Open 129024 NRTPTG1	22.0	129346 NRTHPRT3	138	1		-1.00000	0.05776	-283.5	-116.3	
32445	2894.6	5794.7	L:	Interface 19 LIPA IMPORT					3183.6	5911.0	0.94224	1.00000	2900.1	5794.7
			C:	129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1611					
				Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1		-1.00000	0.05776	-283.5	-116.3	
32446	2897.2	5797.4	L:	Interface 19 LIPA IMPORT					3153.4	5911.0	0.95179	1.00000	2900.1	5797.4
			C:	129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1610					
				Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1		-1.00000	0.04821	-253.3	-113.6	
32447	2897.4	5797.5	L:	Interface 19 LIPA IMPORT					3153.3	5911.0	0.95179	1.00000	2900.1	5797.5
			C:	129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1612					
				Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1		-1.00000	0.04821	-253.2	-113.5	
32453	2960.6	5860.7	L:	Interface 19 LIPA IMPORT					3085.7	5911.0	0.95431	1.00000	2900.1	5860.7
			C:	129092 PTJFEG3	20.0	129448 PT JEFF1	138	1	1617					
				Open 129092 PTJFEG3	20.0	129448 PT JEFF1	138	1		-1.00000	0.04569	-185.6	-50.3	
32454	2960.7	5860.8	L:	Interface 19 LIPA IMPORT					3083.7	5911.0	0.95493	1.00000	2900.1	5860.8
			C:	128900 BARETG1	20.0	129202 BARRETT1	138	1	1603					
				Open 128900 BARETG1	20.0	129202 BARRETT1	138	1		-1.00000	0.04507	-183.6	-50.2	
32455	2961.3	5861.5	L:	Interface 19 LIPA IMPORT					3083.2	5911.0	0.95493	1.00000	2900.1	5861.5
			C:	129093 PTJFEG4	20.0	129449 PT JEFF2	138	1	1618					
				Open 129093 PTJFEG4	20.0	129449 PT JEFF2	138	1		-1.00000	0.04507	-183.0	-49.5	
32456	2961.4	5861.6	L:	Interface 19 LIPA IMPORT					3083.1	5911.0	0.95493	1.00000	2900.1	5861.6
			C:	128901 BARETG2	20.0	129203 BARRETT2	138	1	1604					
				Open 128901 BARETG2	20.0	129203 BARRETT2	138	1		-1.00000	0.04507	-182.9	-49.4	
32457	2999.7	5899.8	L:	Interface 19 LIPA IMPORT					2930.6	5911.0	0.99359	1.00000	2900.1	5899.8
			C:	128902 BRT G1-8	13.8	129202 BARRETT1	138	1	1605					
				Open 128902 BRT G1-8	13.8	129202 BARRETT1	138	1		-1.00000	0.00641	-30.4	-11.2	

# **Attachment #12**

**Trial 9 Transfer Limit Analysis**

# New York State Transmission Assessment and Reliability Study (STARS)

## Calculation of Transfer Limits for Horizon Year with BTP Trial #9 Projects

February 22, 2012

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## 1. INTRODUCTION

This report describes the calculation of transfer limits for key interfaces in the New York State Transmission System for the Horizon Year with the Base Transmission Plan (BTP) Trial #9 projects (see Section 2 for details). The purpose of these calculations is to establish transfer limits for use in subsequent LOLE analysis.

Emergency thermal transfer limits were calculated for the following interfaces within the NYCA: Dysinger East, West Central, Volney East, Moses South, Total East, Central East, Central East + Fraser-Gilboa, Central East Group, F to G, UPNY-SENY, UPNY-ConEd, Millwood South Closed, I to J, Dunwoodie South Open, I to K and LIPA Import.

In addition, emergency voltage transfer limits were calculated for the Central East, Central East + Fraser-Gilboa and CE Group interfaces. These interfaces have traditionally been voltage limited, whereas the other interfaces have tended to be thermally limited. So for purposes of this study, voltage transfer limits were only calculated for the Central East related interfaces.



## 2. DESCRIPTION OF POWER FLOW MODEL

A power flow model representative of Horizon Year summer peak load conditions was used in this analysis. The model was developed from the BTP case described in reference [1].

The model includes the following Trial 9 transmission projects. All other BTP projects (see reference [1]) were removed from the model.

1. Leeds-Pleasant Valley 345kV line #3
2. National Grid 115kV transmission upgrades

**Table 2-1: Load Levels in Horizon Year Summer Peak Case**

Zone #	Zone Name	Load (MW)	Losses (MW)	Demand (MW)
1	West	2991	132	3123
2	Genessee	2267	98	2365
3	Central	3168	155	3323
4	North	947	24	971
5	Mohawk Valley	1390	210	1600
6	Capital	2718	150	2868
7	Hudson Valley	2873	76	2948
8	Millwood	732	50	782
9	Dunwoodie	1703	50	1753
10	NYC	14147	179	14326
11	Long Island	6659	97	6757
<b>Total:</b>		<b>39594</b>	<b>1222</b>	<b>40816</b>

Table 2-2 summarizes the base case interface flows in the NYCA system and between NYCA and neighboring systems. Table 2-3 summarizes the schedules for selected phase angle regulators (PARs) and other controlled devices in the base case.

**Table 2-2: Summary of Base Case Interface Flows**

<b>Interface</b>	<b>Flow (MW)</b>
Dysinger East	2340
West Central	1105
Moses South	2086
Volney East	2748
Total East Closed (Note 1)	6382
Central East	2408
Central East + Fraser-Gilboa	2584
CE Group	4088
F to G	3828
UPNY-SENY Open	5780
UPNY-ConEd Open	5411
Millwood South Closed	9542
Dunwoodie South Open	4754
I to J	3536
I to K	1217
LI Import	2114

Notes:

1. Includes Hudson Transmission Project.

**Table 2-3: PAR Schedules in 2018 Summer Peak Case**

**(a) Controllable devices within NYCA**

<b>Device</b>	<b>MW</b>	<b>Direction</b>
Inghams (CD-E)	91	
Valley Stream PAR	122	Toward NYC
Lake Success PAR	164	Toward NYC
East Garden City PAR 1	298	Toward LIPA
East Garden City PAR 2	298	Toward LIPA
Sherman Creek PAR 1	200	Toward NYC
Sherman Creek PAR 2	200	Toward NYC
Parkchester PAR 1	245	Toward NYC
Parkchester PAR 2	245	Toward NYC
Dunwoodie North PAR 1	136	Toward NYC
Dunwoodie North PAR 2	136	Toward NYC
Dunwoodie South PAR 1	73	Toward NYC
Dunwoodie South PAR 2	73	Toward NYC

**(b) Inter-area controllable devices**

<b>Device</b>	<b>MW</b>	<b>Direction</b>
Ramapo PAR 1	502	Toward NY
Ramapo PAR 2	502	Toward NY
St. Lawrence PAR 1	150	Toward NY
St. Lawrence PAR 2	150	Toward NY
Sandbar PAR	75	Toward VT
Northport PAR	203	Toward NY
Farragut PAR 1	332	Toward NY
Farragut PAR 2	332	Toward NY
Goethals PAR	333	Toward NY
Linden VFT	245	Toward NY
Neptune HVdc	648	Toward NY
Cross Sound Cable HVdc	330	Toward NY
Chateauguay HVdc	832	Toward NY
Hudson Transmission Project (HTP)	660	Toward NY

### 3. CALCULATION OF EMERGENCY THERMAL TRANSFER LIMITS

Transfer limit analysis was performed to establish “short-term” emergency thermal transfer limits for thermally-constrained interfaces. The analysis was performed on the Horizon Year Trial 9 power flow case described in Section 2 of this report.

#### 3.1 Methodology

Emergency transfer limits were established using the Linear FCITC Calculation tool in the PSS<sup>TM</sup>MUST Program (version 10.2).

The emergency transfer limit is the transfer level at which:

- a branch is loaded at its normal rating (Rate A) for pre-contingency conditions, or
- a branch is loaded at its short-term emergency rating (Rate C) following a contingency

For the purposes of this analysis, transmission facilities rated 100 kV and above within NYCA (and tie-lines out of NYCA) were monitored. Engineering judgment was used to identify limiting transmission facilities. Generally, “direct tie” facilities or facilities in the vicinity of the interface being studied that became loaded at their Rate A or Rate C ratings as described above were flagged.

Interface definitions are shown in Appendix A.

The following types of contingencies were simulated based on the contingency files provided by NYISO. In addition to these contingencies, other contingencies provided by National Grid associated with wind generation in the North Country were simulated.

1. Outage of branches connected between buses with a base voltage of 100 kV and above (these included outages based on “automatic” N-1 contingency specification<sup>1</sup> in MUST and specific pre-defined branch outages)
2. Generator outages
3. Series element contingencies
4. Bus contingencies
5. HVdc contingencies

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<sup>1</sup> Automatic N-1 contingencies were not simulated in the Con Edison system.

Phase angle regulators maintain their scheduled power flow pre-contingency but are fixed at their corresponding pre-contingency angle post-contingency.

### 3.2 Results

Table 3-1 summarizes the emergency thermal transfer limits obtained from the MUST analysis (full MUST output for the various interfaces is provided in Appendix B). Limits are rounded down to the nearest 25 MW.

Limits for the upstate interfaces were calculated without making any adjustments to the base case. Limits for the downstate interfaces are sensitive to phase angle regulator settings in Con Edison and LIPA and were calculated as described below:

Interface limits for the UPNY-SENY, UPNY-ConEd Open, Millwood South Closed, Dunwoodie South Open and I-to-J interfaces were calculated based on the following assumptions (same assumptions as in reference [1]):

- Sherman Creek PAR1 and PAR2 are scheduled at 200 MW each into NYC.
- Parkchester PAR1 and PAR2 are scheduled at 245 MW each into NYC.
- Dunwoodie North PAR1 and PAR2 are scheduled at 115 MW each into NYC.
- Dunwoodie South PAR1 and PAR2 are scheduled at 120 and 115 MW respectively into NYC.

Limits for the “I to K” and “Long Island Import” interfaces were computed by making the following adjustments:

- Neptune HVDC is scheduled at 600 MW into LIPA.
- Cross Sound Cable is scheduled at 330 MW into LIPA.
- Northport PARs are scheduled at 450 MW into LIPA.
- Jamaica – Lake Success PAR is adjusted at 85 MW into LIPA.
- Jamaica – Valley Stream PAR is adjusted at 90 MW into LIPA.
- EGC PAR1 and PAR2 are scheduled at 318 MW each into LIPA.
- Resulting base case flow on Y50 (Dunwoodie – Shore Road 345 kV) is 640 MW.

Table 3-2 compares the transfer limits from the Trial 9 case against the corresponding limits from the BTP case (see reference [1]). In general, the following observations are made from Table 3-2.

1. The limits for the Volney East interface exhibited a 5% decrease going from the BTP case to the Trial 9 case (200 MW decrease). This can be explained as follows. Compared with the Trial 9 case, more power can be transferred across the Volney East interface in the BTP case before the limiting facility (Fraser - Coopers Corners 345 kV) becomes overloaded.

This is because the Marcy - Princetown - New Scotland 345 kV and the Leeds - New Scotland #3 lines in the BTP case facilitate higher west-to-east transfers across this interface compared with the Trial 9 case (these 345 kV lines are not present in the Trial 9 case).

2. The Moses South interface exhibited a decrease of 45% in the emergency thermal transfer limits. This is because the Moses-Marcy 345 kV lines in the BTP case are substituted with the existing Moses-Porter 230 kV lines in the Trial 9 case. It should be noted that the facility that determines the emergency transfer limit for this interface is: Marcy 765/345 AT1 for loss of AT2<sup>2</sup>. This is a valid limitation considering that the post-contingency loading on AT1 is 1756 MVA (which is less than the 1866 MVA required to trigger SPS action<sup>3</sup>).
3. The Central East interface exhibited a 1200 MW decrease in the emergency thermal transfer limits with respect to the BTP case. This is attributed to the removal of the Marcy - Princetown - N. Scotland 345 kV line and the New Scotland – Leeds #3 line from the BTP case (these two 345 kV lines together facilitated high transfers across this interface). This explains the reduction in the emergency thermal transfer limit.
4. The Central East+Fraser-Gilboa and CE Group interfaces exhibited a 375 MW decrease in emergency transfer limits for the same reasons as in item (3) above. In addition, the removal of the Oakdale – Fraser #2 line in the Trial 9 case moves the limiting facility for this interface from the Fraser – Coopers Corners 345 kV line (BTP case) back to the New Scotland 77 – Leeds 345 kV line (Trial 9 case).
5. The F-to-G interface exhibited a 725 MW reduction in emergency thermal transfer limits. The removal of N. Scotland - Leeds #3 line in the Trial 9 case moves the limiting constraint for this interface to the existing New Scotland 77 - Leeds 345 kV line. The limiting facility in BTP case was Leeds - Pleasant Valley #1 for loss of Leeds – Pleasant Valley #3.
6. The UPNY-SENY interface exhibited a 325 MW reduction in emergency thermal transfer limits with respect to corresponding transfer limits in the BTP case. The removal of the Oakdale – Fraser #2 line and the N. Scotland – Leeds #3 line in the Trial 9 case moves the limiting constraint

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<sup>2</sup> For the purposes of this calculation, the ratings of the Marcy 765/345 kV transformers were updated as follows based on feedback received from NYPA.

Old ratings: AT1 (Normal/LTE/STE) : 1488 / 1654 / 1654 MVA; AT2: 1488 / 1793 / 2338 MVA  
New ratings: AT1 (Normal/LTE/STE): 1488 / 1650 / 1756 MVA; AT2: 1488 / 1650 / 1971 MVA

<sup>3</sup> Following the loss of Marcy AT2, the SPS trips Marcy AT1 provided the loading on each phase of AT1 exceeds 1409A at 765kV ( 1866MVA). The SPS also cross-trips the Chateaugay – Massena and Massena – Marcy 765 kV lines.

for this interface to the existing New Scotland 77 – Leeds 345 kV line. The limiting facility in BTP case was Fraser – Coopers Corners 345 kV line.

7. Emergency transfer limits for the UPNY-ConEd Open interface exhibited a 700 MW reduction with respect to corresponding transfer limits in the BTP case. The absence of the Ramapo-Rock Tavern 345 kV line in the Trial 9 case pre-loads the Roseton – E.Fishkill 345 kV line for transfers into SENY. This reduces the emergency transfer limit on the UPNY-ConEd interface. Similar comments for the Millwood South Closed interface.
8. The emergency transfer limit for the I-to-K interface is identical to the corresponding limit derived previously<sup>4</sup>.
9. The LIPA Import interface showed a 575 MW reduction in the Trial 9 case compared to the BTP case. This is because the Trial 9 case does not have the Pleasant Valley – Ruland Road HVdc line where as the BTP case does.

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<sup>4</sup> The limiting transfer for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

**Table 3-1: Emergency Thermal Transfer Limits for Horizon Year with Trial #9 Projects**

Interface	Horizon Year T9	
	Su Peak Case	
Dysinger East	2975	1
West Central	1800	1
Volney East	4100	2
Moses South	2325	3
Total East (Closed)	7575	4
Central East (Note 1)	2975	4
Central East + Fraser-Gilboa (Note 1)	3350	4
CE Group (Note 1)	5275	4
F to G	4525	4
UPNY-SENY Open (Note 2)	6950	4
UPNY-ConEd Open	6825	5
Millwood South Closed (Note 3)	10850	5
I to J	4450	6
Dunwoodie South Open	5675	6
I to K	1275	7
LIPA Import	2900	7

Limiting Facility		Limiting Rating MVA	Contingency
1	Niagara-Rochester 345	1685	L/O Kintigh-Rochester 345
2	Fraser - Coopers Corners 345	1207	Pre-disturbance
3	Marcy 765/345 AT1	1756	L/O Marcy 765/345 AT2
4	New Scotland 77 - Leeds 345	1724	L/O New Scotland 99 - Leeds 345
5	Roseton-Fishkill 345	1935	Pre-disturbance
6	Dunwoodie-Mott Haven 71	783	Pre-disturbance
7	Dunwoodie-Shore Rd 345	653	Pre-disturbance

**Notes:**

1. Excludes Plattsburgh-Sandbar 115 kV line.
2. Excludes Jefferson-Ramapo 500 kV line.
3. Includes Hudson Transmission Project (HTP).
4. The limiting facility for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).



**Table 3-2: Comparison of Horizon Year Emergency Thermal Transfer Limits  
Trial 9 Case vs. BTP Case**

Interface	Horizon Year Su Peak Case Trial 9	Horizon Year Su Peak Case With BTP	Difference	
			MW	%
Dysinger East	2975	2950	25	1%
West Central	1800	1775	25	1%
Volney East	4100	4300	-200	-5%
Moses South	2325	4200	-1875	-45%
Total East (Closed)	7575	7750	-175	-2%
Central East (Note 1)	2975	4175	-1200	-29%
Central East + Fraser-Gilboa (Note 1)	3350	3725	-375	-10%
CE Group (Note 1)	5275	5650	-375	-7%
F to G	4525	5250	-725	-14%
UPNY-SENY Open (Note 2)	6950	7275	-325	-4%
UPNY-ConEd Open	6825	7525	-700	-9%
Millwood South Closed (Note 3)	10850	11275	-425	-4%
I to J	4450	4475	-25	-1%
Dunwoodie South Open	5675	5700	-25	0%
I to K	1275	1275	0	0%
LIPA Import	2900	3475	-575	-17%

**Notes:**

1. Excludes Plattsburgh-Sandbar 115 kV line.
2. Excludes Jefferson-Ramapo 500 kV line.
3. Includes Hudson Transmission Project (HTP).
4. The limiting facility for the I-to-K and LIPA Import interfaces is Y50 (Dunwoodie – Shore Road 345 kV). The limit is based on the MW rating for Y50 (653 MW).

## 4. CALCULATION OF EMERGENCY VOLTAGE TRANSFER LIMITS

Emergency voltage transfer limits were calculated on the Horizon Year power flow case described in Section 2 of this report.

### 4.1 Methodology

Emergency voltage transfer limits were calculated using the PV Analysis tool of PSS/E™ (version 30).

The limits were calculated by preparing a series of power flow cases with increasing MW transfers across the interfaces being studied and subjecting them to severe (voltage-wise) contingencies. The monitored buses were then reviewed for violations of post-contingency minimum voltage criteria and/or voltage collapse.

The testing followed NYISO practices and procedures discussed in Attachment E of the NYISO Transmission Expansion and Interconnection Manual [5]. MW transfers were increased until the point of voltage collapse was reached. In power flow analysis, this point is the highest transfer level for which a solution can be achieved. There is no solution beyond this transfer level because there are no more dispatchable reactive power resources available to support the transfer. Upon plotting the specific bus voltage (y-axis) against the pre-contingency MW transfer level (x-axis), the impending voltage collapse can be identified as the knee point on the PV curve. Based on the maximum sustainable pre-contingency MW transfer (i.e. the transfer level for which a solution can be achieved post contingency; with any further increases in power transfer rendering the system un-solvable due to reactive power deficiency), a reduced pre-contingency transfer level based on a 5% safety margin is determined. This reduced transfer is then compared against the pre-contingency MW transfer level which corresponds to a post-contingency minimum voltage at the monitored buses. In order to ensure that a voltage-based transfer limit is computed with a margin of safety, the lower of the two power transfers (i.e. 95% of that corresponding to voltage collapse point or that obtained by applying the relevant post-contingency low voltage limit) is chosen as the voltage-limited interface maximum transfer level.

The following assumptions were made for the analysis:

1. Phase angle regulators (“PARs”), switched shunts and LTC transformers are modeled as regulating pre-contingency and non-regulating post-contingency.
2. SVC and FACTS devices are set to near zero pre-contingency and allowed to operate full range post-contingency.

## 4.2 Results

Table 4-1 summarizes the emergency voltage transfer limits for the Central East, Central East + Fraser-Gilboa and CE Group interfaces (see column highlighted in yellow). For comparison purposes, corresponding limits derived earlier with the BTP projects (reference [1]) are also summarized. Limits are rounded down to the nearest 25 MW. The last two columns summarize the differences between the two sets of limits both in MW and as a percentage of the BTP limits. The Plattsburgh-Sandbar 115 kV line is not included in the interface definitions.

Figure 4-1 shows the PV curves for the Central East interface at the New Scotland 99 bus for various post-contingency conditions. For each contingency, the post-contingency voltage at New Scotland 99 bus is plotted against the pre-contingency MW flow on the interface. The most limiting contingency is tower contingency TWR 34/42 (CE18). Note from the Figure 4-1 that for this particular contingency, the nose of the curve is approx. 2940 MW. The pre-contingency transfer that corresponds to 95% of 2940 MW is 2793 MW (rounded down to the nearest 25 MW, which gives 2775 MW). The post-contingency voltage at the 2775 MW transfer level is above the post-contingency low voltage limit (328 MW). Based on the above, the emergency voltage transfer limit for the Central East interface is 2775 MW.

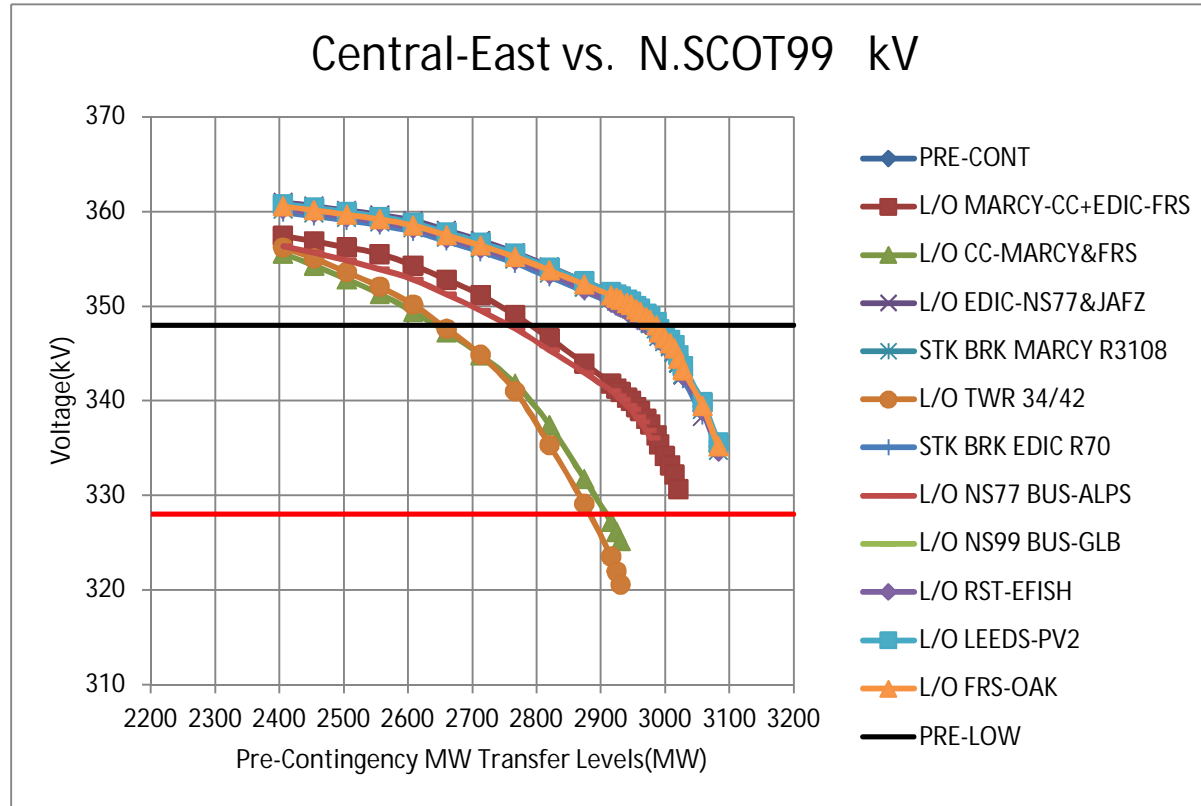
**Table 4-1: Emergency Voltage Transfer Limits**

Interfaces	Post-Contingency Low (A)		95% Voltage Collapse (B)			Pre-Contingency Low (C)		Horizon Year Limit with BTP Trial 9 Min(A,B,C)	Horizon Year Limit with BTP		Diff with BTP Limits
	MW Flow	Limiting Facilities	MW Flow	Limiting Facility	Tip of Curve	MW Flow	Limiting Bus	MW Flow	MW Flow	Limiting Facility	(%)
CENTRAL EAST	2875	1	2793	2 & 3	2940	2825	Marcy 345	2775	3275	4	-15.3
CE+FRASER-GILBOA	3250	1	3173	2 & 3	3340	3200	Marcy 345	3150	3700	4	-14.9
CE-GROUP	5025	1	4889	2 & 3	5146	4950	Marcy 345	4875	5550	4	-12.2

Notes:

- 1) Leeds 345kV bus voltage post-contingency low limit for L/O TWR 34/42 (CE18)
- 2) 95% PV nose for L/O Coopers Corners-Marcy 345kV and Coopers Corners-Fraser 345kV (CE08)
- 3) 95% PV nose for L/O TWR 34/42 (CE18)
- 4) Pre-contingency voltage limit at Marcy 345kV bus

**Figure 4-1: PV Curves for Central East Interface Showing Post-Contingency Voltage Limit**



## 5. CONSOLIDATION OF EMERGENCY THERMAL AND VOLTAGE TRANSFER LIMITS FOR CENTRAL EAST INTERFACE

Emergency thermal and emergency voltage transfer limits for the Central East, Central East + Fraser Gilboa and CE Group interfaces are consolidated and presented in Table 5-1. The more limiting of the two transfer limits is shown in the last column.

**Table 5-1: Consolidation of Central East Limits**

Interface	STARS Horizon Year Summer Peak Trial 9		
	Emergency Thermal Transfer Limit (MW)	Emergency Voltage Transfer Limit (MW)	Min (Thermal, Voltage)
Central East	2975	2775	<b>2775</b> (V)
Central East + Fraser-Gilboa	3350	3150	<b>3150</b> (V)
CE Group	5275	4875	<b>4875</b> (V)

(T) = Thermally-constrained

(V) = Voltage-constrained

## 6. REFERENCES

- [1] *NY STARS Calculation of Transfer Limits for Horizon Year with Base Transmission Plan Projects*, Prepared by ABB Inc., September 8, 2011.
- [2] *NY STARS Phase II Draft Report*, Prepared by ABB Inc., July 9, 2010.
- [3] *2010 Comprehensive Area Transmission Review of the New York State Bulk Power Transmission System (Study Year 2015)*, Draft Report issued by the New York Independent System Operator, March 17, 2011.
- [4] *Exceptions to NYSRC Reliability Rules - Revision 1*, May 11, 2010.
- [5] NYISO Transmission Expansion and Interconnection Manual, September 1999.

**APPENDIX A – INTERFACE DEFINITIONS**



# Interface Details

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
1 DYSINGER EAS      -4208.0    4208.0    2340.1
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130754 KINTI345      345 149000 ROCH 345      345 1    894.1
130767 STOLE230      230 130764 MEYER230    230 1      0.0
130767 STOLE230      230 130770 SHLDN230    230 1    284.3
135452 LOCKPORT      115 135851 SHEL-113    115 1    102.9
135452 LOCKPORT      115 135865 NAKR-108    115 1     68.1
135452 LOCKPORT      115 135867 OAKFLDTP    115 1     0.0
135452 LOCKPORT      115 135875 TELRDTP1    115 1     95.6
135452 LOCKPORT      115 135876 TELRDTP1    115 1     89.9
147834 NIAG 345      345 149000 ROCH 345      345 1    805.2

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
2 WEST CENTRAL      -4532.2    4532.2    1105.3
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130767 STOLE230      230 130764 MEYER230    230 1     0.0
130767 STOLE230      230 130770 SHLDN230    230 1    284.3
149122 C708 LD      34.5 130926 WOLCOT34    34.5 1     -0.0
149026 QUAKER        115 131242 MACDN115    115 1     45.3
149004 S121 B#2      115 131243 SLEIG115    115 1     97.8
149005 CLYDE199      115 131243 SLEIG115    115 1    -48.3
131251 BROWNS C      34.5 131252 CLYDE 34    34.5 1     0.0
135260 ANDOVER1      115 131344 PALMT115    115 1     52.7
149010 STA 162      115 131345 S.PER115    115 1     -5.3
135861 MORTIMER      115 135860 LAWLER-1    115 1    100.1
135861 MORTIMER      115 136213 LAWLER-2    115 1     73.7
149001 PANNELL3      345 136150 CLAY      345 1    245.3
149001 PANNELL3      345 136150 CLAY      345 2    246.1
149074 STA127      34.5 136167 HOOKRD    115 1    -30.7
149005 CLYDE199      115 136183 CLTNCORN    115 1     24.7
149075 FARMNGTN      34.5 136194 FARMGTN1    115 1    -31.1
149025 PANNELLI      115 136197 FRMGTN-4    115 1    125.7
149141 FRMNGT2      34.5 136197 FRMGTN-4    115 1    -45.5
149146 S168          12.0 136197 FRMGTN-4    115 1     -6.2
149118 CLYDE 34      34.5 149005 CLYDE199    115 1    -23.6

```

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
3 VOLNEY EAST-      -10047.0   10047.0   2747.7
List of interface branches
**      From Bus      ** **      To Bus      ** CKT  InitFlow
130755 OAKDL345      345 130753 FRASR345    345 1    506.9
130755 OAKDL345      345 130753 FRASR345    345 2     0.0
130838 OAKDL115      115 130794 DELHI115    115 1     43.7
130863 WILET115      115 130796 E.NOR115    115 1     91.5
130819 KATEL115      115 130817 JENN 115    115 1     0.0
136150 CLAY          345 137200 EDIC      345 1    461.2
136150 CLAY          345 137200 EDIC      345 2    462.6
136156 VOLNEY        345 147833 MARCY T1    345 1    567.2
136216 LTHSE HL      115 136755 BLACK RV    115 1    -13.1
136216 LTHSE HL      115 136768 E WTRTWN    115 1     -8.4
136244 TEALL         115 137233 ONEIDA      115 1     34.8

```

136250	WHITMAN	115	137233	ONEIDA	115	1	0.0
136529	OMEGAWIR	34.5	137360	CAMDEN	34.5	1	-3.2
147830	JA FITZP	345	137200	EDIC	345	1	602.0
137219	W HILL_T	115	137233	ONEIDA	115	1	-1.0
137234	PETRBORO	115	137233	ONEIDA	115	1	3.5

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
4 MOSES SOUTH- -5368.0   5368.0   2086.4
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
136750	ALCOA-NM	115	136760	BRADY	115	1	30.8
136767	DENNISON	115	136752	ANDRWS-4	115	1	19.9
136767	DENNISON	115	136782	LWRNCE-B	115	1	21.7
136791	NICHOLVL	115	136783	MALONE	115	1	0.0
147828	MASS 765	765	147827	MARCY765	765	1	1678.7
147840	MOSES W	230	147835	ADRON B1	230	1	167.7
147840	MOSES W	230	147836	ADRON B2	230	1	167.7

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
5 TOTAL EAST   -15198.1  15198.1  6381.6
```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
91	JEFFERSN	500	126250	RAMAPO 5	500	1	1004.7
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.2
4996	LINDEN	230	126321	GOETHALS	230	1	332.8
5028	WALDWICK	345	146752	SMAHWAH1	345	1	-454.3
5028	WALDWICK	345	146753	SMAHWAH2	345	1	-544.1
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.2
5473	LINVFT4	345	126265	COGNTECH	345	1	243.8
234603	HCOR138	138	146761	BURNS138	138	1	0.0
234604	SMAH138	138	146752	SMAHWAH1	345	1	-123.3
234604	SMAH138	138	146769	RAMP138	138	1	-106.2
234608	HCOR69	69.0	146812	WNYA69	69.0	1	-24.5
234609	MONTVALE	69.0	146777	BLUHILL	69.0	1	6.9
234609	MONTVALE	69.0	146777	BLUHILL	69.0	2	6.9
234609	MONTVALE	69.0	146850	L491T	69.0	1	-38.4
234610	SMAH69	69.0	146790	HILB69	69.0	1	-66.0
234611	HCOR34	34.5	146826	PEARL34	34.5	1	12.2
234614	CRESSKIL	69.0	146807	SPARKILL	69.0	1	-12.5
147852	PLAT T#3	115	100511	GRAND IS	115	1	84.1
130750	COOPC345	345	125001	ROCK TAV	345	2	686.3
996304	W49_INV	416	126304	W 49 ST	345	1	660.0
128842	NEPTCONV	345	128847	NWBRG	345	1	648.1
130750	COOPC345	345	146754	MDTN TAP	345	1	817.4
130753	FRASR345	345	147831	GILB 345	345	1	175.8
130797	E.SPR115	115	137886	INGHAM-E	115	1	24.1
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0
137200	EDIC	345	137452	N.SCOT77	345	1	806.2
137204	JORDNVLL	230	137730	ROTRDM.2	230	1	294.6
137210	PORTER 2	230	137730	ROTRDM.2	230	1	0.0
137210	PORTER 2	230	137730	ROTRDM.2	230	2	286.5
137228	INGMS-CD	115	137886	INGHAM-E	115	1	91.0
147833	MARCY T1	345	137453	N.SCOT99	345	1	905.3

```
**** Interface ***
                Limit      Limit
                Import     Export  InitFlow
6 CENTRAL EAST -4393.8   4393.8   2408.3
```

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130797	E.SPR115	115	137886 INGHAM-E	115 1	24.1
137200	EDIC	345	137452 N.SCOT77	345 1	806.2
137204	JORDNVLL	230	137730 ROTRDM.2	230 1	294.6
137210	PORTER 2	230	137730 ROTRDM.2	230 1	0.0
137210	PORTER 2	230	137730 ROTRDM.2	230 2	286.5
137228	INGMS-CD	115	137302 INGHAMS	46.0 1	0.7
137228	INGMS-CD	115	137886 INGHAM-E	115 1	91.0
147833	MARCY T1	345	137453 N.SCOT99	345 1	905.3

**** Interface ***	Limit	Limit	
	Import	Export	InitFlow
7 CE+FRAS-GILB	-5821.8	5821.8	2584.2

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130753	FRASR345	345	147831 GILB 345	345 1	175.8
130797	E.SPR115	115	137886 INGHAM-E	115 1	24.1
137200	EDIC	345	137452 N.SCOT77	345 1	806.2
137204	JORDNVLL	230	137730 ROTRDM.2	230 1	294.6
137210	PORTER 2	230	137730 ROTRDM.2	230 1	0.0
137210	PORTER 2	230	137730 ROTRDM.2	230 2	286.5
137228	INGMS-CD	115	137302 INGHAMS	46.0 1	0.7
137228	INGMS-CD	115	137886 INGHAM-E	115 1	91.0
147833	MARCY T1	345	137453 N.SCOT99	345 1	905.3

**** Interface ***	Limit	Limit	
	Import	Export	InitFlow
8 CE-GROUP	-8839.8	8839.8	4087.8

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
130750	COOPC345	345	125001 ROCK TAV	345 2	686.3
130750	COOPC345	345	146754 MDTN TAP	345 1	817.4
130753	FRASR345	345	147831 GILB 345	345 1	175.8
130797	E.SPR115	115	137886 INGHAM-E	115 1	24.1
137200	EDIC	345	137452 N.SCOT77	345 1	806.2
137204	JORDNVLL	230	137730 ROTRDM.2	230 1	294.6
137210	PORTER 2	230	137730 ROTRDM.2	230 1	0.0
137210	PORTER 2	230	137730 ROTRDM.2	230 2	286.5
137228	INGMS-CD	115	137302 INGHAMS	46.0 1	0.7
137228	INGMS-CD	115	137886 INGHAM-E	115 1	91.0
147833	MARCY T1	345	137453 N.SCOT99	345 1	905.3

**** Interface ***	Limit	Limit	
	Import	Export	InitFlow
10 F-To-G	-6453.0	6453.0	3828.3

List of interface branches

**	From Bus	** **	To Bus	** CKT	InitFlow
137451	LEEDS 3	345	125000 HURLEY 3	345 1	768.5
137507	BOC 2T	115	125040 N.CAT. 1	115 1	0.0
137507	BOC 2T	115	125040 N.CAT. 1	115 2	84.9
137480	ADM	115	125043 PL.VAL 1	115 1	46.0
137489	BL STR E	115	125043 PL.VAL 1	115 1	46.1
137492	BLUES-8	115	125043 PL.VAL 1	115 1	48.9
137451	LEEDS 3	345	126294 PLTVLLEY	345 1	974.5
137451	LEEDS 3	345	126294 PLTVLLEY	345 2	940.4
137455	ATHENS	345	126294 PLTVLLEY	345 1	919.1

**** Interface ***	Limit	Limit	
	Import	Export	InitFlow
11 UPNY SENY-OP	-10654.1	10654.1	5848.1

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
103117	CTNY398	345	126294	PLTVLLEY	345	1	453.7
137451	LEEDS 3	345	125000	HURLEY 3	345	1	776.4
130750	COOPC345	345	125001	ROCK TAV	345	2	696.8
137507	BOC 2T	115	125040	N.CAT. 1	115	1	0.0
137507	BOC 2T	115	125040	N.CAT. 1	115	2	85.7
137480	ADM	115	125043	PL.VAL 1	115	1	46.8
137489	BL STR E	115	125043	PL.VAL 1	115	1	47.0
137492	BLUES-8	115	125043	PL.VAL 1	115	1	49.6
137451	LEEDS 3	345	126294	PLTVLLEY	345	1	984.9
137451	LEEDS 3	345	126294	PLTVLLEY	345	2	950.2
137455	ATHENS	345	126294	PLTVLLEY	345	1	928.4
130750	COOPC345	345	146754	MDTN TAP	345	1	828.6
130862	W.WDB115	115	131560	W.WDBR69	69.0	1	0.0

**** Interface ****	Limit	Limit	InitFlow
	Import	Export	
12 UPNY-CONED-0	-13455.0	13455.0	5476.4

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
125002	ROSETON	345	126281	FISHKILL	345	1	1233.8
126281	FISHKILL	345	125022	E FISH I	115	1	142.6
125026	FISHKILL	115	131112	SYLVN115	115	1	118.4
126297	RAMAPO	345	126262	BUCHANAN N	345	1	265.8
126290	LADENTWN	345	126263	BUCHANAN S	345	1	555.9
126294	PLTVLLEY	345	126281	FISHKILL	345	1	571.1
126294	PLTVLLEY	345	126281	FISHKILL	345	2	571.1
126294	PLTVLLEY	345	126291	MILLWOOD	345	1	995.5
126294	PLTVLLEY	345	126306	WOOD B	345	1	1022.1

**** Interface ****	Limit	Limit	InitFlow
	Import	Export	
13 MILW-SOUTH-C	-16396.0	16396.0	9609.2

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
4989	HUDSON1	345	126278	B3402 PAR1	345	1	332.5
4996	LINDEN	230	126321	GOETHALS	230	1	333.0
5039	HUDSON2	345	126279	C3403 PAR2	345	1	332.5
5473	LINVFT4	345	126265	COGNTECH	345	1	243.9
103166	NORHR138	138	129343	NRTHPT P	138	1	67.8
103166	NORHR138	138	129343	NRTHPT P	138	2	67.8
103166	NORHR138	138	129343	NRTHPT P	138	3	67.8
126262	BUCHANAN N	345	126267	E VIEW 2N	345	1	1126.3
126291	MILLWOOD	345	126268	E VIEW 1N	345	1	1143.7
126291	MILLWOOD	345	126269	E VIEW 2S	345	1	1086.6
126291	MILLWOOD	345	126270	E VIEW 1S	345	1	1086.6
126281	FISHKILL	345	126292	PL VILLE	345	1	1059.5
126305	WOOD A	345	126293	PL VILLW	345	1	1023.5
996304	W49_INV	416	126304	W 49 ST	345	1	660.0
128842	NEPTCONV	345	128847	NWBRG	345	1	648.1
128880	SHMHVDCL	192	129459	SHOREHAM	138	1	329.5

**** Interface ****	Limit	Limit	InitFlow
	Import	Export	
14 DUNWOODIE-SO	-6310.0	6310.0	4820.7

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
126266	DUNWODIE	345	126600	REAC71	345	SR	562.4
126266	DUNWODIE	345	126601	REAC72	345	SR	558.6

126266	DUNWODIE	345	128835	SHORE RD	345	1	622.5
126298	SPRBROOK	345	126301	TREMONT	345	1	491.2
126298	SPRBROOK	345	126847	ACADEMY	345	1	401.5
126299	REACBUS	345	147857	DVNPT NK	345	1	597.8
126517	REACM51	345	126304	W 49 ST	345	1	561.8
126518	REACM52	345	126304	W 49 ST	345	2	561.8
126370	DUN NO1R	138	126483	S CREEK	138	1	114.4
126371	DUN NO2R	138	126483	S CREEK	138	1	114.6
126374	DUN SO1R	138	126385	E179 ST	138	1	234.1

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
16 I-TO-J      -4949.0      4949.0    3600.3

```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
126298	SPRBROOK	345	126301	TREMONT	345	1	491.2
126298	SPRBROOK	345	126847	ACADEMY	345	1	401.5
126517	REACM51	345	126304	W 49 ST	345	1	561.8
126518	REACM52	345	126304	W 49 ST	345	2	561.8
126370	DUN NO1R	138	126483	S CREEK	138	1	114.4
126371	DUN NO2R	138	126483	S CREEK	138	1	114.6
126374	DUN SO1R	138	126385	E179 ST	138	1	234.1
126600	REAC71	345	126641	MOTT HAVEN	345	3	562.4
126601	REAC72	345	126641	MOTT HAVEN	345	4	558.6

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
15 I-to-K      -1421.0      1421.0    1278.8

```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
126266	DUNWODIE	345	128835	SHORE RD	345	1	640.5
147857	DVNPT NK	345	128830	HMP HRBR	345	1	638.3

```

**** Interface ***
                Limit      Limit
                Import      Export  InitFlow
19 LIPA IMPORT -2776.0      2776.0    2900.2U

```

List of interface branches

**	From Bus	**	**	To Bus	**	CKT	InitFlow
103166	NORHR138	138	129343	NRTHPT P	138	1	150.3
103166	NORHR138	138	129343	NRTHPT P	138	2	150.3
103166	NORHR138	138	129343	NRTHPT P	138	3	150.3
126266	DUNWODIE	345	128835	SHORE RD	345	1	640.5
126455	JAMAICA	138	129235	V STRM P	138	1	85.7
126455	JAMAICA	138	129249	L SUCSPH	138	1	90.5
147857	DVNPT NK	345	128830	HMP HRBR	345	1	638.3
128842	NEPTCONV	345	128847	NWBRG	345	1	660.2
128880	SHMHVDCL	192	129459	SHOREHAM	138	1	334.2

**APPENDIX B – MUST OUTPUT**

# DysingerEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:40

HORIZON YEAR SU PEAK LOAD 40,816 MW

ICAP TRIAL #9

Case.File ICAP-T9-Rev3.sav

Subsys.File STARS-TTL.SUB

Monit.File STARS-TTL.MON

Contin.File STARS-TTL.CON

Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 15160

First violation - 530.6 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15160 violations

Interface-1 Interface 1 DYSINGER EAS Init.Flow= 2340.14 TDF= 0.6624

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	530.6	2691.7	L: 135872 SOUR-111 C:147834 NIAG 345 Open 147834 NIAG 345	115 135873 SWDN-111 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	137.7 0.04005 0.04438	102.0 0.02655 0.30418	116.1 1317 966.6
2	700.7	2804.3	L: 135850 SOUR-114 C:147834 NIAG 345 Open 147834 NIAG 345	115 135861 MORTIMER 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	123.7 0.04178 0.04629	86.5 0.02769 0.30418	105.9 1317 1018.3
3	703.5	2806.2	L: 135872 SOUR-111 C:130754 KINTI345 Open 130754 KINTI345	115 135873 SWDN-111 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	134.9 0.03419 0.03683	102.0 0.02655 0.20746	120.7 270 1040.1
4	727.1	2821.8	L: 130815 HINMN115 C:147834 NIAG 345 Open 147834 NIAG 345	115 131611 HARIS115 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	-275.8 -0.04148 -0.04950	-236.0 -0.02643 0.30418	-255.2 1317 1026.4
5	732.4	2825.3	L: 130815 HINMN115 C:147834 NIAG 345 Open 147834 NIAG 345	115 135452 LOCKPORT 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	248.7 0.04270 0.05095	207.7 0.02720 0.30418	227.6 1317 1028.0
6	745.4	2833.9	L: 130774 BATH 115 C:130751 CNDGUA_T Open 130751 CNDGUA_T	115 131347 HOWARD 230 130761 AVOCA230 230 130761 AVOCA230	115 1 230 1 230 1	-136.5 -0.03024 -0.13781	-100.6 -0.02188 0.06068	-117.0 262 305.1
7	746.1	2834.4	L: 130774 BATH 115 C:SER:MEYER_HILLSD_68 Open 130761 AVOCA230 Open 130751 CNDGUA_T	115 131347 HOWARD 1704 230 131154 STONY RIDGE 230 130761 AVOCA230	115 1 1704 230 1 230 1	-136.4 -0.03024 -0.13781 -0.09551	-100.6 -0.02188 0.06068 0.00000	-117.0 1704 304.6 0.5
8	747.7	2835.4	L: 130774 BATH 115 C:130761 AVOCA230 Open 130761 AVOCA230	115 131347 HOWARD 230 131154 STONY RIDGE 230 131154 STONY RIDGE	115 1 230 1 230 1	-136.4 -0.03024 -0.13781	-100.6 -0.02188 0.06068	-117.0 281 304.7
9	748.9	2836.2	L: 130761 AVOCA230 C:130757 WATRC345 Open 130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN 345 135249 ARMENMTN	230 1 345 1 345 1	326.7 0.07519 -0.12039	259.4 0.06068 -0.12058	304.8 278 -649.5

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			C:130763 HILSD230	230	131154	STONY RIDGE	230	1	285										
			Open 130763 HILSD230		230	131154	STONY RIDGE	230	1			0.13781	-0.06068	-257.0	-303.0				
12	775.4	2853.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		324.9	383.0	0.07495	0.06068	259.4	306.4				
			C:SER:HC-WC_30&W-F_171						1701										
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.04656	-0.00341	-21.4	-24.0				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11969	-0.12058	-559.2	-652.7				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00937	0.00000	-44.7	-44.7				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA									
13	780.3	2857.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-324.3	-383.0	-0.07519	-0.06068	-257.0	-304.3				
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278										
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.12039	-0.12058	-559.2	-653.3				
14	786.7	2861.3	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-323.6	-383.0	-0.07550	-0.06068	-257.0	-304.7				
			C:SER:HCWC/NWES						1707										
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.00811	-0.03439	57.1	30.1				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.12065	-0.12058	-559.2	-654.1				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00914	0.00000	-44.7	-44.7				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA									
15	797.4	2868.4	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		323.0	383.0	0.07519	0.06068	259.4	307.7				
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35										
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.12039	0.12058	528.9	625.1				
16	798.6	2869.2	L: 130815 HINMN115	115	131611	HARIS115	115	1		-279.2	-306.0	-0.03351	-0.02643	-236.0	-257.1				
			C:130766 ROBIN230	230	130767	STOLE230	230	1	289										
			Open 130766 ROBIN230	230	130767	STOLE230	230	1				-0.26127	0.02714	165.5	187.2				
17	805.2	2873.5	L: 130815 HINMN115	115	135452	LOCKPORT	115	1		252.2	280.0	0.03450	0.02720	207.7	229.6				
			C:130766 ROBIN230	230	130767	STOLE230	230	1	289										
			Open 130766 ROBIN230	230	130767	STOLE230	230	1				0.26896	0.02714	165.5	187.4				
18	806.9	2874.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-322.5	-383.0	-0.07495	-0.06068	-257.0	-306.0				
			C:SER:HC-WC_30&W-F_171						1701										
			Open 135277 FALCONER	115	200579	WARREN	115	1				-0.04656	-0.00341	-21.4	-24.2				
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1		NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11969	-0.12058	-559.2	-656.5				
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00937	0.00000	-44.7	-44.7				
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA									
19	820.4	2883.6	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		321.3	383.0	0.07519	0.06068	259.4	309.1				
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448										
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.12039	-0.12058	-514.6	-613.5				
20	828.8	2889.1	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-320.7	-383.0	-0.07519	-0.06068	-257.0	-307.3				
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35										
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				-0.12039	0.12058	528.9	628.9				
21	851.8	2904.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-319.0	-383.0	-0.07519	-0.06068	-257.0	-308.7				
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448										
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.12039	-0.12058	-514.6	-617.3				
22	868.4	2915.4	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1		134.3	173.0	0.04461	0.02957	94.5	120.1				
			C:147834 NIAG 345	345	149000	ROCH 345	345	1	1317										
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04943	0.30418	805.2	1069.4				



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26	952.4	2971.1	L: 130815 HINMN115	115	131611 HARIS115	115	1	-272.7	-306.0	-0.03495	-0.02643	-236.0	-261.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04108	0.20746	894.1	1091.7
27	958.7	2975.2	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	245.5	280.0	0.03598	0.02720	207.7	233.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04229	0.20746	894.1	1093.0
28	967.6	2981.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1283.3	1685.0	0.41513	0.30418	805.2	1099.5
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53477	0.20746	894.1	1094.8
29	997.7	3001.0	L: 130774 BATH 115	115	131347 HOWARD	115	1	-128.8	-159.0	-0.03024	-0.02188	-100.6	-122.5
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			0.13781	-0.06068	-204.5	-265.0
30	1035.2	3025.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	326.9	383.0	0.05418	0.06068	259.4	322.2
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.04950	-0.12058	-559.2	-684.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.15696	-0.07942	254.0	171.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04118	0.00000	0.0	0.0
31	1060.3	3042.6	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.3
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	262					
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13781	0.06068	259.9	324.2
32	1061.0	3043.0	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.3
			C:SER:MEYER_HILLSD_68					1704					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13781	0.06068	259.4	323.7
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.09551	0.00000	0.5	0.5
33	1062.6	3044.0	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.4
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	281					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13781	0.06068	259.4	323.8
34	1073.3	3051.2	L: 131342 BENET115	115	131347 HOWARD	115	1	126.5	159.0	0.03024	0.02188	91.1	114.6
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	285					
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.13781	-0.06068	-257.0	-322.1
35	1078.7	3054.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-324.6	-383.0	-0.05418	-0.06068	-257.0	-322.5
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.04950	-0.12058	-559.2	-689.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.15696	-0.07942	254.0	168.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04118	0.00000	0.0	0.0
36	1099.1	3068.3	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	131.1	173.0	0.03808	0.02957	94.5	127.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04103	0.20746	894.1	1122.1
37	1167.1	3113.3	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	120.9	159.0	0.03261	0.02655	102.0	133.0
			C:135850 SOUR-114	115	135861 MORTIMER	115	1	746					
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1			0.21890	0.02769	86.5	118.8
38	1202.8	3136.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-329.2	-430.0	-0.08382			
			Base Case										
39	1209.7	3141.5	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1	119.0	159.0	0.03309	0.02298	73.7	101.5
			C:135860 LAWLER-1	115	135861 MORTIMER	115	1	762					
			Open 135860 LAWLER-1	115	135861 MORTIMER	115	1			-0.45217	-0.02235	-100.1	-127.1
40	1221.2	3149.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-117.6	-173.0	-0.04536	-0.03007	-77.1	-113.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05027	0.30418	805.2	1176.7
41	1223.6	3150.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1376.6	-1724.0	-0.28388	-0.18270	-886.3	-1109.8

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
45	1281.2	3188.8	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.34114									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
46	1299.8	3201.2	L: 130815 HINMN115	115	131611 HARS115	115	1	-262.8	-306.0	-0.03325									
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
47	1306.4	3205.5	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	235.3	280.0	0.03423									
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
48	1312.6	3209.6	L: 131342 BENET115	115	131347 HOWARD	115	1	119.3	159.0	0.03024									
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263											
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1												
49	1328.8	3220.4	L: 130815 HINMN115	115	131611 HARS115	115	1	-261.8	-306.0	-0.03325									
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
50	1335.4	3224.8	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	234.3	280.0	0.03423									
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
51	1340.8	3228.4	L: 130750 COOPC345	345	130753 FRASR345	345	1	-915.5	-1207.0	-0.21741									
			Base Case																
52	1344.3	3230.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	317.3	430.0	0.08382									
			Base Case																
53	1346.5	3232.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07902									
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
54	1346.5	3232.1	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07902									
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
55	1355.0	3237.7	L: 130815 HINMN115	115	131611 HARS115	115	1	-260.9	-306.0	-0.03325									
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
56	1360.6	3241.4	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	107.8	153.0	0.03324									
			C:135872 SOUR-111	115	135873 SWDN-111	115	1	780											
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1												
57	1361.6	3242.1	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	233.4	280.0	0.03423									
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
58	1393.3	3263.1	L: 130815 HINMN115	115	131611 HARS115	115	1	-259.7	-306.0	-0.03325									
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1												
59	1399.9	3267.5	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	232.1	280.0	0.03423									
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1												
60	1403.8	3270.1	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	128.1	180.0	0.03696									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
61	1409.6	3273.9	L: 130815 HINMN115	115	131611 HARS115	115	1	-259.1	-306.0	-0.03325									
			C:130767 STOLE230	230	130770 SHLDN230	230	1	291											

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			Open 135851 SHEL-113	115	135874 SWDN-113	115	1		0.14808	0.02450	95.1	130.0		
65	1421.8	3282.0	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	283.7	383.0	0.06986	0.06068	259.4	345.6	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03019	0.30418	805.2	1237.7
66	1436.1	3291.5	L: 135860 LAWLER-1	115	135861 MORTIMER	115	1	-136.6	-185.0	-0.03372	-0.02235	-100.1	-132.2	
			C:135861 MORTIMER	115	136213 LAWLER-2	115	1	767						
			Open 135861 MORTIMER	115	136213 LAWLER-2	115	1				-0.49492	0.02298	73.7	106.7
67	1448.2	3299.5	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-286.0	-383.0	-0.06698	-0.06068	-257.0	-344.9	
			C:130774 BATH 115	115	131347 HOWARD	115	1	296						
			Open 130774 BATH 115	115	131347 HOWARD	115	1				0.28809	-0.02188	-100.6	-132.3
68	1448.7	3299.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	295.2	383.0	0.06062	0.06068	259.4	347.3	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.07644	0.00075	-468.6	-467.5
69	1454.0	3303.3	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	285.6	383.0	0.06698	0.06068	259.4	347.6	
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28809	0.02188	91.1	122.9
70	1455.5	3304.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-281.3	-383.0	-0.06986	-0.06068	-257.0	-345.3	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.03019	0.30418	805.2	1247.9
72	1471.9	3315.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	306.6	430.0	0.08382				
			Base Case											
73	1487.6	3325.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-292.8	-383.0	-0.06062	-0.06068	-257.0	-347.3	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.07644	0.00075	-468.6	-467.5
74	1489.2	3326.6	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-283.3	-383.0	-0.06698	-0.06068	-257.0	-347.4	
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				-0.28809	0.02188	91.1	123.7
77	1512.4	3342.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-114.4	-173.0	-0.03872	-0.03007	-77.1	-122.6	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04172	0.20746	894.1	1207.9
78	1513.1	3342.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-382.6	-540.0	-0.10401	-0.08382	-329.2	-456.0	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06637	0.30418	805.2	1265.5
79	1523.0	3349.0	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	132.8	180.0	0.03101	0.02408	102.9	139.6	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03341	0.20746	894.1	1210.1
83	1557.9	3372.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.09782	-0.08382	-329.2	-459.8	
			C:SER:HCWC/NWES					1707						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02850	-0.03439	57.1	3.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10798	-0.12058	-559.2	-747.1
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00736	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
84	1560.5	3373.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.09673	-0.08382	-329.2	-460.0	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10706	-0.12058	-559.2	-747.4
85	1568.0	3378.8	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-96.8	-153.0	-0.03582	-0.02781	-62.3	-105.9	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.03859	0.20746	894.1	1219.4

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
89	1590.3	3393.6	L: 135872 SOUR-111	115	135873 SWDN-111	115	1		104.6	159.0	0.03419								
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269											
			Open 130754 KINTI345	345	147834 NIAG 345	345	1												
91	1594.0	3396.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-385.8	-540.0	-0.09673								
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35											
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1												
93	1598.6	3399.1	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2		-353.2	-402.0	-0.03052								
			C:137532 RTRDM1	115	137730 ROTRDM.2	230	1	1177											
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1												
95	1610.0	3406.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-384.3	-540.0	-0.09673								
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448											
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
99	1621.0	3414.0	L: 130815 HINMN115	115	135452 LOCKPORT	115	1		231.2	280.0	0.03007								
			C:135468 SNBRN102	115	147850 NIAG115E	115	1	699											
			Open 135468 SNBRN102	115	147850 NIAG115E	115	1												
100	1621.2	3414.1	*L: 130815 HINMN115	115	135452 LOCKPORT	115	1		230.9	280.0	0.03027								
			C:135452 LOCKPORT	115	135464 SANBORNT	115	1	663											
			Open 135452 LOCKPORT	115	135464 SANBORNT	115	1												
101	1623.6	3415.7	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-559.2	-755.0	-0.12058								
			Base Case																
104	1627.2	3418.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		370.8	540.0	0.10401								
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
105	1629.9	3419.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		805.2	1301.0	0.30418								
			Base Case																
111	1658.8	3439.0	L: 95976 STONYCRK	230	130770 SHLDN230	230	1		-291.0	-430.0	-0.08382								
			Base Case																
112	1667.7	3444.9	L: 135850 SOUR-114	115	135861 MORTIMER	115	1		98.1	153.0	0.03290								
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	765											
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1												
113	1669.9	3446.3	L: 130757 WATRC345	345	130768 WATRC230	230	1		482.5	600.0	0.07033								
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1												
114	1679.2	3452.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		375.7	540.0	0.09782								
			C:SER:HCWC/NWES					1707											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1												
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA										
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA										
115	1683.1	3455.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		377.2	540.0	0.09673								
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
116	1696.3	3463.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-378.4	-540.0	-0.09525								
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1												
117	1699.2	3465.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		375.9	540.0	0.09656								



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			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1				0.10706	0.12058	528.9	749.3
171	1831.5	3553.4	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	97.0	153.0	0.03058		0.02769	86.5	137.2
			C:	95976	STONYCRK	230	131122	WTHRS230	230	1	42						
			Open	95976	STONYCRK	230	131122	WTHRS230	230	1				0.03440	0.08382	306.6	460.1
174	1840.0	3559.1	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1	600.6	746.0	0.07902		0.04882	455.1	545.0
			C:	125001	ROCK TAV	345	126297	RAMAPO	345	1	69						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1				0.14032	0.21523	1036.7	1432.7
175	1840.0	3559.1	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1	600.6	746.0	0.07902		0.04882	455.1	545.0
			C:	SIN:440							1783						
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1				0.14032	0.21523	1036.7	1432.7
176	1840.8	3559.5	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	96.4	153.0	0.03073		0.02769	86.5	137.4
			C:	135856	EBAT-119	115	135859	LAPPINS1	115	1	754						
			Open	135856	EBAT-119	115	135859	LAPPINS1	115	1				0.10263	0.02957	97.3	151.7
177	1843.1	3561.1	L:	95976	STONYCRK	230	131122	WTHRS230	230	1	361.7	540.0	0.09673		0.08382	306.6	461.1
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1448						
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1				-0.10706	-0.12058	-514.6	-736.8
178	1848.5	3564.7	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-389.2	-540.0	-0.08157		-0.08382	-329.2	-484.1
			C:	BUS:WATERCURE_345							1732						
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1				0.05592	-0.12058	-559.2	-782.1
			Open	130757	WATRC345	345	130768	WATRC230	230	1				-0.11323	-0.07942	254.0	107.2
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.04915	0.00000	0.0	0.0
179	1849.2	3565.1	*L:	135850	SOUR-114	115	135861	MORTIMER	115	1	96.5	153.0	0.03058		0.02769	86.5	137.7
			C:	95976	STONYCRK	230	130770	SHLDN230	230	1	41						
			Open	95976	STONYCRK	230	130770	SHLDN230	230	1				-0.03440	-0.08382	-291.0	-446.0
193	1865.5	3575.9	L:	130750	COOPC345	345	146754	MDTN TAP	345	1	1255.1	1793.0	0.28835		0.18222	817.4	1157.3
			C:	125001	ROCK TAV	345	130750	COOPC345	345	2	70						
			Open	125001	ROCK TAV	345	130750	COOPC345	345	2				-0.63780	-0.16641	-686.3	-996.7
196	1868.8	3578.1	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	37.2	143.0	0.05662		0.03702	7.3	76.5
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	271						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				-0.09799	-0.20000	-305.2	-679.0
201	1874.9	3582.1	L:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	528.9	755.0	0.12058				
			Base Case														
206	1880.6	3585.9	L:	95976	STONYCRK	230	130770	SHLDN230	230	1	-344.4	-540.0	-0.10401		-0.08382	-291.0	-448.6
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1317						
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1				-0.06637	0.30418	805.2	1377.2
210	1885.3	3589.0	L:	146758	CHESTER	138	146771	SHOEM138	138	1	-219.0	-317.0	-0.05196		-0.02869	-156.0	-210.0
			C:	125001	ROCK TAV	345	146754	MDTN TAP	345	1	71						
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1				0.17442	-0.13340	-361.7	-613.2
216	1891.3	3593.0	L:	149000	ROCH 345	345	149001	PANNELL3	345	2	810.6	1685.0	0.46235		0.25767	451.6	939.0
			C:	149000	ROCH 345	345	149001	PANNELL3	345	1	1383						
			Open	149000	ROCH 345	345	149001	PANNELL3	345	1				0.79700	0.25682	450.3	936.1
219	1893.7	3594.6	L:	149000	ROCH 345	345	149001	PANNELL3	345	1	810.1	1685.0	0.46204		0.25682	450.3	936.7
			C:	149000	ROCH 345	345	149001	PANNELL3	345	2	1384						
			Open	149000	ROCH 345	345	149001	PANNELL3	345	2				0.79647	0.25767	451.6	939.6
234	1906.4	3603.0	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-35.1	-143.0	-0.05662		-0.03702	-5.1	-75.7
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	271						
			Open	130755	OAKDL345	345	130757	WATRC345	345	1				0.09799	-0.20000	-305.2	-686.5
245	1920.0	3612.0	L:	130815	HINMN115	115	131611	HARIS115	115	1	-238.9	-306.0	-0.03495		-0.02643	-236.0	-286.7
			C:	130754	KINTI345	345	147834	NIAG 345	345	1	269						
			Open	130754	KINTI345	345	147834	NIAG 345	345	1				0.04108	-0.20746	-71.0	-469.3

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270	1948.1	3630.6	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.4	336.0	0.05060	0.02314	119.8	164.9
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	262					
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.45253	0.06068	259.9	378.1
272	1948.5	3630.9	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.4	336.0	0.05060	0.02314	119.8	164.9
			C:SER:MEYER_HILLSD_68					1704					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45253	0.06068	259.4	377.6
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.41258	0.00000	0.5	0.5
273	1948.6	3631.0	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-349.4	-540.0	-0.09782	-0.08382	-291.0	-454.3
			C:SER:HCWC/NWES					1707					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02850	-0.03439	57.1	-9.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10798	-0.12058	-559.2	-794.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00736	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
276	1952.5	3633.5	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.2	336.0	0.05060	0.02314	119.8	165.0
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	281					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45253	0.06068	259.4	377.8
280	1955.6	3635.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-350.8	-540.0	-0.09673	-0.08382	-291.0	-454.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10706	-0.12058	-559.2	-795.0
290	1961.3	3639.4	L: 130754 KINTI345	345	149000 ROCH 345	345	1	894.1	1301.0	0.20746			
			Base Case										
298	1972.2	3646.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-349.6	-540.0	-0.09656	-0.08382	-291.0	-456.3
			C:SER:HC-WC_30&W-F_171					1701					
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03156	-0.00341	-21.4	-28.1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10659	-0.12058	-559.2	-797.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00752	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
299	1973.6	3647.5	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	236.1	336.0	0.05060	0.02314	119.8	165.5
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	285					
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.45253	-0.06068	-257.0	-376.8
316	1986.0	3655.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	97.4	173.0	0.03808	0.02957	94.5	153.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04103	-0.20746	-71.0	-483.0
326	1989.2	3657.8	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-347.6	-540.0	-0.09673	-0.08382	-291.0	-457.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10706	0.12058	528.9	768.8
346	1993.9	3661.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.4	540.0	0.08157	0.08382	317.3	484.4
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05592	-0.12058	-559.2	-799.7
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11323	-0.07942	254.0	95.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04915	0.00000	0.0	0.0
347	1994.1	3661.1	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-514.6	-755.0	-0.12058			
			Base Case										
381	2005.1	3668.4	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-346.1	-540.0	-0.09673	-0.08382	-291.0	-459.0
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10706	-0.12058	-514.6	-756.3

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			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1				0.00914	0.00000	-44.7	-44.7		
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA								
410	2016.3	3675.8	L:	130767	STOLE230	230	130770	SHLDN230		230	1	342.8	540.0	0.09782		0.08382	284.3	453.3		
			C:	SER:HCWC/NWES							1707									
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1						57.1	-12.2		
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA								
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1						-0.10798	-0.12058	-559.2	-802.4
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA								
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1						0.00736	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA								
451	2024.1	3681.0	L:	130767	STOLE230	230	130770	SHLDN230		230	1	344.2	540.0	0.09673		0.08382	284.3	454.0		
			C:	130757	WATRC345	345	135249	ARMENMTN		345	1	278								
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1									
500	2027.9	3683.5	L:	147834	NIAG 345	345	149000	ROCH 345		345	1	843.1	1685.0	0.41513		0.30418	805.2	1422.1		
			C:	130754	KINTI345	345	147834	NIAG 345		345	1	269								
			Open	130754	KINTI345	345	147834	NIAG 345		345	1									
679	2035.3	3688.4	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	106.6	173.0	0.03265		0.02957	94.5	154.6		
			C:	130764	MEYER230	230	134750	DAIRY230		230	1	286								
			Open	130764	MEYER230	230	134750	DAIRY230		230	1									
770	2036.3	3689.1	L:	130751	CNDGUA_T	230	130761	AVOCA230		230	1	325.4	478.0	0.07495		0.06068	259.9	383.4		
			C:	SER:HC-WC_30&W-F_171							1701									
			Open	135277	FALCONER	115	200579	WARREN		115	1						0.04656	-0.00341	-21.4	-28.3
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA								
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1									
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA								
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1						0.00937	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA								
1316	2037.6	3689.9	L:	130761	AVOCA230	230	131154	STONY RIDGE		230	1	259.4	383.0	0.06068						
				Base Case																
1868	2040.7	3692.0	L:	130767	STOLE230	230	130770	SHLDN230		230	1	342.9	540.0	0.09656		0.08382	284.3	455.4		
			C:	SER:HC-WC_30&W-F_171							1701									
			Open	135277	FALCONER	115	200579	WARREN		115	1						0.03156	-0.00341	-21.4	-28.4
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA								
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1									
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA								
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1						0.00752	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA								
2011	2048.7	3697.2	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	106.1	173.0	0.03265		0.02957	94.5	155.0		
			C:	131122	WTHRS230	230	134750	DAIRY230		230	1	458								
			Open	131122	WTHRS230	230	134750	DAIRY230		230	1									
2050	2054.3	3701.0	L:	130751	CNDGUA_T	230	130761	AVOCA230		230	1	323.5	478.0	0.07519		0.06068	259.9	384.5		
			C:	95593	CHERYFLT	345	135249	ARMENMTN		345	1	35								
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1									
2062	2057.6	3703.2	L:	130767	STOLE230	230	130770	SHLDN230		230	1	341.0	540.0	0.09673		0.08382	284.3	456.8		
			C:	95593	CHERYFLT	345	135249	ARMENMTN		345	1	35								
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1									
2085	2060.7	3705.2	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	105.7	173.0	0.03265		0.02957	94.5	155.4		
			C:	95976	STONYCRK	230	131122	WTHRS230		230	1	42								
			Open	95976	STONYCRK	230	131122	WTHRS230		230	1									
2091	2061.8	3705.9	L:	130764	MEYER230	230	134750	DAIRY230		230	1	-367.1	-540.0	-0.08388		-0.08382	-329.2	-502.0		



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			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
2282	2073.5	3713.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	339.4	540.0	0.09673	0.08382	284.3	458.1	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10706	-0.12058	-514.6	-764.6
2384	2075.0	3714.7	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-366.0	-540.0	-0.08388	-0.08382	-329.2	-503.1	
			C:HQ-NY-765-New					1877						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02479	0.00121	888.3	890.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02479	0.00105	774.3	776.4
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.00113	-150.9	-153.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.00244	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
2919	2076.5	3715.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-257.0	-383.0	-0.06068				
			Base Case											
3358	2077.3	3716.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.07519	0.06068	259.9	385.9	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.12039	-0.12058	-514.6	-765.0
3443	2078.3	3716.9	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	105.1	173.0	0.03265	0.02957	94.5	155.9	
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1				-0.03673	-0.08382	-291.0	-465.2
3622	2085.8	3721.8	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	104.9	173.0	0.03265	0.02957	94.5	156.1	
			C:130767 STOLE230	230	130770 SHLDN230	230	1	291						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.03673	0.08382	284.3	459.2
3642	2087.9	3723.3	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-950.7	-1345.0	-0.18884	-0.13121	-708.1	-982.0	
			C:130750 COOPC345	345	130753 FRASR345	345	1	257						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26505	-0.21741	-915.5	-1369.4
3653	2090.1	3724.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-701.2	-1380.0	-0.32480	-0.30063	-506.9	-1135.3	
			C:130753 FRASR345	345	137200 EDIC	345	1	267						
			Open 130753 FRASR345	345	137200 EDIC	345	1				0.27753	-0.08706	-699.9	-881.8
3678	2097.5	3729.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-340.2	-540.0	-0.09525	-0.08382	-291.0	-466.8	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.05509	0.20746	894.1	1329.3
3696	2104.7	3734.4	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-91.5	-173.0	-0.03872	-0.03007	-54.2	-117.5	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04172	0.20746	894.1	1330.7
3720	2116.7	3742.3	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1219.4	-1724.0	-0.23841	-0.18270	-886.3	-1273.0	
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.34138	-0.16321	-975.7	-1321.1
3724	2118.6	3743.6	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-671.4	-927.0	-0.12063	-0.12058	-559.2	-814.7	
			C:SPS:MARCY_AT1_AT2					1696						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02337	0.00121	888.3	890.8



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			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	890.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	776.6	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
3822	2216.5	3808.4	*L: 131122 WTHRS230	230	134750 DAIRY230	230	1		354.1	540.0	0.08388	0.08382	317.3	503.1
			C:HQ-NY-765-New				1877							
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	890.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	776.6	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
3829	2230.6	3817.8	L: 130794 DELHI115	115	130804 DEL T115	115	1		27.8	164.0	0.06107	0.03313	-19.3	54.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.09294	-0.30063	-506.9	-1177.5	
3840	2261.9	3838.5	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1165.4	-1793.0	-0.27745	-0.16641	-686.3	-1062.7
			C:SER:CMT34&MTR34				1692							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55071	0.18222	817.4	1229.5	
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.08019	-0.13340	-361.7	-663.4	
3850	2279.5	3850.2	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1143.5	-1724.0	-0.25464	-0.18165	-880.3	-1294.4
			C:BUS:N.S._77				1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60286	-0.04054	-100.5	-192.9	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.39246	-0.00153	264.2	260.7	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.32367	0.17376	806.2	1202.3	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.25025	-0.03314	-6.3	-81.8	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.18777	0.00000	-250.0	-250.0	
3859	2290.3	3857.3	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		987.8	1685.0	0.30440	0.30418	805.2	1501.9
			C:SPS:MARCY_AT1_AT2				1696							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.09629	0.00121	888.3	891.0	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.09629	0.00105	774.3	776.7	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						

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			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.02957	-0.00150	279.1	275.6	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.06746	-0.18165	-880.3	-1297.9	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.09502	0.00000	2.1	2.1	
3872	2302.8	3865.6	L: 130794 DELHI115	115	130838 OAKDL115	115	1	-79.0	-179.0	-0.04343	-0.02248	-43.7	-95.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	265					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.06968	-0.30063	-506.9	-1199.2	
3874	2306.6	3868.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	982.9	1685.0	0.30440	0.30418	805.2	1506.8
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.09629	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.09629	0.00105	774.3	776.7	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.01657	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
3879	2317.1	3875.0	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.0	-540.0	-0.08157	-0.08382	-291.0	-485.2
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.05592	-0.12058	-559.2	-838.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11323	-0.07942	254.0	70.0	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04915	0.00000	0.0	0.0	
3885	2330.5	3883.9	L: 130836 N.WAV115	115	131018 LOUNSL115	115	1	41.0	173.0	0.05662	0.03702	11.1	97.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.09799	-0.20000	-305.2	-771.3	
3886	2330.6	3884.0	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	344.5	540.0	0.08388	0.08382	306.6	502.0
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02479	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02479	0.00105	774.3	776.7	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.00244	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3895	2343.9	3892.8	*L: 95976 STONYCRK	230	131122 WTHRS230	230	1	343.4	540.0	0.08388	0.08382	306.6	503.1
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02479	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02479	0.00105	774.3	776.7	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	

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3897	2345.8	3894.1	L: 130787 CODNT115	115	130830 MONTR115	115	1	-19.3	-144.0	-0.05316	-0.03652	6.1	-79.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08324	-0.20000	-305.2	-774.4
3915	2369.6	3909.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.24725	-0.18632	-905.3	-1346.8
			C:SIN:160					1770					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35063	0.17376	806.2	1218.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19962	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00024	-0.00017	40.8	40.4
3916	2369.6	3909.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.24725	-0.18632	-905.3	-1346.8
			C:SIN:150					1769					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35063	0.17376	806.2	1218.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19964	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILLION	115	1			-0.00016	-0.00010	46.2	45.9
3917	2369.8	3910.0	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	641.1	927.0	0.12063	0.12058	528.9	814.7
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02337	0.00121	888.3	891.1
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02337	0.00105	774.3	776.8
			Open 147827 MARCY765	765	147828 MASS 765	765	1			NA			
			Open 147828 MASS 765	765	180819 CHA-NY	765	1			NA			
			Open 156 MCY765SW	765	147827 MARCY765	765	1			NA			
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1			NA			
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1			NA			
3943	2398.2	3928.8	L: 130767 STOLE230	230	130770 SHLDN230	230	1	344.4	540.0	0.08157	0.08382	284.3	485.4
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05592	-0.12058	-559.2	-848.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11323	-0.07942	254.0	63.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04915	0.00000	0.0	0.0
3944	2399.2	3929.5	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-80.1	-173.0	-0.03872	-0.03007	-77.1	-149.3
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			0.04172	-0.20746	-71.0	-568.7
3956	2409.8	3936.5	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	105.3	180.0	0.03101	0.02408	102.9	160.9
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03341	-0.20746	-71.0	-570.9
3975	2425.7	3947.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-985.3	-1703.0	-0.29587	-0.21741	-915.5	-1442.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	268					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39710	0.19757	175.8	655.1
3989	2434.2	3952.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-886.3	-1331.0	-0.18270			
			Base Case										
3994	2436.3	3954.0	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	633.1	927.0	0.12063	0.12058	528.9	822.7
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1			NA			
			Open 147828 MASS 765	765	180819 CHA-NY	765	1			NA			
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02337	0.00121	888.3	891.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02337	0.00105	774.3	776.8
			Open 156 MCY765SW	765	147827 MARCY765	765	1			NA			
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1			NA			
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05390	0.00000	-153.0	-153.0





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			C:GEN:GINNA				1661						
			Remove unit 1 from bus 149140 GINNA 19	19.0	582.0 MW	dispatch							
5746	2542.7	4024.5	L: 135862 MUMFORD1 115 135866 NLEROYTA 115 1										
			C: 95976 STONYCRK 230 131122 WTHRS230 230 1 42										
			Open 95976 STONYCRK 230 131122 WTHRS230 230 1										
5749	2543.3	4024.9	L: 137200 EDIC 345 137452 N.SCOT77 345 1										
			C:SIN:170 1771										
			Open 137453 N.SCOT99 345 147833 MARCY T1 345 1										
			Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1										
			Open 137235 PORTER 1 115 137246 VALLEY 115 1										
5750	2543.3	4024.9	L: 137200 EDIC 345 137452 N.SCOT77 345 1										
			C:SIN:180 1772										
			Open 137453 N.SCOT99 345 147833 MARCY T1 345 1										
			Open 137228 INGMS-CD 115 137886 INGHAM-E 115 1										
			Open 137235 PORTER 1 115 147905 ILION 115 1										
5754	2544.5	4025.7	L: 130757 WATRC345 345 135249 ARMENMTN 345 1										
			C:GEN:MILLST 3 1671										
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW			dispatch							
5755	2544.5	4025.7	L: 130757 WATRC345 345 135249 ARMENMTN 345 1										
			C:GEN:MLS3&OMS 1673										
			Open 100508 SANDB115 115 100509 SB RCTOR 115 2										
			Remove unit 3 from bus 103563 MILL#3 24.0 1276.0 MW			dispatch							
5756	2544.6	4025.8	L: 147834 NIAG 345 345 149000 ROCH 345 345 1										
			C:130764 MEYER230 230 134750 DAIRY230 230 1 286										
			Open 130764 MEYER230 230 134750 DAIRY230 230 1										
5760	2546.1	4026.8	L: 130848 S.OWE115 115 131850 CNYOG115 115 1										
			C:BUS:WATERCURE_345 1732										
			Open 130757 WATRC345 345 135249 ARMENMTN 345 1										
			Open 130757 WATRC345 345 130768 WATRC230 230 1										
			Open 130755 OAKDL345 345 130757 WATRC345 345 1										
5761	2546.4	4027.0	L: 130753 FRASR345 345 130755 OAKDL345 345 1										
			C:BUS:N.S._77 1714										
			Open 137452 N.SCOT77 345 137453 N.SCOT99 345 1										
			Open 137452 N.SCOT77 345 137516 N.SCOT1 115 1										
			Open 120601 STARS-00601 13.8 137452 N.SCOT77 345 01 NA										
			Open 137200 EDIC 345 137452 N.SCOT77 345 1										
			Open 137450 ALPS345 345 137452 N.SCOT77 345 1										
			Open 137451 LEEDS 3 345 137452 N.SCOT77 345 1										
5765	2549.5	4029.0	L: 147834 NIAG 345 345 149000 ROCH 345 345 1										
			C:GEN:GINNA 1661										
			Remove unit 1 from bus 149140 GINNA 19 19.0 582.0 MW			dispatch							
5766	2549.7	4029.1	L: 130757 WATRC345 345 135249 ARMENMTN 345 1										
			C:131122 WTHRS230 230 134750 DAIRY230 230 1 458										
			Open 131122 WTHRS230 230 134750 DAIRY230 230 1										
5770	2551.8	4030.5	L: 147834 NIAG 345 345 149000 ROCH 345 345 1										
			C:131122 WTHRS230 230 134750 DAIRY230 230 1 458										
			Open 131122 WTHRS230 230 134750 DAIRY230 230 1										
5775	2553.1	4031.4	L: 130750 COOPC345 345 130753 FRASR345 345 1										
			C:137451 LEEDS 3 345 147831 GILB 345 345 1 1086										
			Open 137451 LEEDS 3 345 147831 GILB 345 345 1										



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			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00090	-0.00017	40.8	40.4
5786	2555.5	4033.0	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-618.7 -927.0 -0.12063		-0.12058	-514.6	-822.7
			C:HQ-NY-765-New				1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02337	0.00121	888.3	891.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02337	0.00105	774.3	777.0
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.8
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05390	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA				
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA				
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA				
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch				
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch				
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch				
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch				
5798	2558.3	4034.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	865.0 1685.0 0.32053		0.30418	805.2	1583.4
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42				
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1		0.19501	0.08382	306.6	521.1
5800	2559.0	4035.3	*L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-594.1 -927.0 -0.13010		-0.12058	-559.2	-867.8
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42				
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1		-0.11362	0.08382	306.6	521.1
5803	2560.3	4036.2	*L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-88.0 -173.0 -0.03320		-0.03007	-77.1	-154.1
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41				
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1		0.03735	-0.08382	-291.0	-505.6
5804	2561.6	4037.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-609.9 -1380.0 -0.30063		-0.30063	-506.9	-1277.0
			C:SIN:250				1777					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW			dispatch				
5821	2567.8	4041.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	861.9 1685.0 0.32053		0.30418	805.2	1586.3
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41				
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1		-0.19501	-0.08382	-291.0	-506.2
5829	2571.9	4043.8	*L: 147834 NIAG 345	345	149000 ROCH 345	345	1	860.6 1685.0 0.32053		0.30418	805.2	1587.5
			C:130767 STOLE230	230	130770 SHLDN230	230	1	291				
			Open 130767 STOLE230	230	130770 SHLDN230	230	1		0.19501	0.08382	284.3	499.9
5854	2581.9	4050.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-570.2 -1380.0 -0.31366		-0.30063	-506.9	-1283.1
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091				
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.06988	-0.18632	-905.3	-1386.3
5855	2582.2	4050.7	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-73.7 -153.0 -0.03071		-0.02781	-62.3	-134.2
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286				
			Open 130764 MEYER230	230	134750 DAIRY230	230	1		0.03454	-0.08382	-329.2	-545.6
5872	2587.1	4054.0	L: 130765 OAKDL230	230	130772 SHRED230	230	1	-163.4 -440.0 -0.10693		-0.05429	-83.0	-223.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271				
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.26320	-0.20000	-305.2	-822.6
5876	2590.6	4056.3	L: 130765 OAKDL230	230	130838 OAKDL115	115	1	163.0 440.0 0.10693		0.05429	82.7	223.3
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271				
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.26320	-0.20000	-305.2	-823.3
5880	2595.0	4059.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-568.4 -1380.0 -0.31274		-0.30063	-506.9	-1287.1

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5883	2595.5	4059.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-73.3	-153.0	-0.03071	-0.02781	-62.3	-134.5
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458					
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			-0.03454	0.08382	317.3	534.9
5886	2595.7	4059.6	*L: 130753 FRASR345	345	130755 OAKDL345	345	1	-599.6	-1380.0	-0.30063	-0.30063	-506.9	-1287.3
			C:GEN:SEABROOK					1672					
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
5888	2596.4	4060.1	L: 130767 STOLE230	230	130770 SHLDN230	230	1	322.2	540.0	0.08388	0.08382	284.3	502.0
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	891.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	777.0
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00113	-150.9	-153.8
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
5892	2598.6	4061.5	*L: 130767 STOLE230	230	130770 SHLDN230	230	1	305.8	540.0	0.09012	0.08382	284.3	502.1
			C:135272-135289					1880					
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30853	0.02041	69.4	122.5
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00497	-0.00115	4.1	1.1
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04870	0.00000	1.5	1.5
5905	2607.6	4067.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.9	-153.0	-0.03071	-0.02781	-62.3	-134.9
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42					
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			-0.03454	0.08382	306.6	525.2
5919	2610.5	4069.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.4	-153.0	-0.03087	-0.02781	-62.3	-134.9
			C:135856 EBAT-119	115	135859 LAPPINS1	115	1	754					
			Open 135856 EBAT-119	115	135859 LAPPINS1	115	1			-0.10350	0.02957	97.3	174.5
5928	2613.1	4071.2	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	97.5	180.0	0.03156	0.02450	95.1	159.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03400	-0.20746	-71.0	-613.1
5948	2620.0	4075.7	*L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.1	-153.0	-0.03087	-0.02781	-62.3	-135.2
			C:135859 LAPPINS1	115	135866 NLEROYTA	115	1	761					
			Open 135859 LAPPINS1	115	135866 NLEROYTA	115	1			-0.10350	0.02957	94.5	171.9
6025	2636.3	4086.5	L: 135853 BATAVIA1	115	135871 SENECA1	115	1	123.7	239.0	0.04373	0.02899	84.7	161.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04847	0.30418	805.2	1607.1
6055	2641.3	4089.9	L: 130762 GARDV230	230	130767 STOLE230	230	1	260.1	478.0	0.08249	0.05668	118.8	268.5
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	290					
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1			-0.47496	-0.05434	-297.5	-441.0
6203	2650.7	4096.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	536.8	746.0	0.07893	0.04882	455.1	584.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22573	-0.13340	-361.7	-715.3
7333	2657.8	4100.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1101.0	1724.0	0.23442	0.17376	806.2	1268.1
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32557	-0.18632	-905.3	-1400.5
7454	2660.3	4102.4	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-455.1	-585.0	-0.04882			
			Base Case										
7470	2661.2	4103.0	L: 146758 CHESTER	138	146773 SGRLF138	138	1	178.7	317.0	0.05196	0.02869	115.6	192.0
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71					

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			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263						
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1		0.45292	-0.06068	-204.5	-366.6		
7624	2671.2	4109.6	L: 135861 MORTIMER	115	135874 SWDN-113	115	1		-67.6	-153.0	-0.03196	-0.02628	-54.9	-125.1
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	765						
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1		0.20402	-0.02781	-62.3	-136.6		
7704	2696.3	4126.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1242.8	-1725.0	-0.17882	-0.13587	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	184						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.31034	-0.13842	-974.5	-1347.7		
7718	2701.7	4129.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		26.2	-143.0	-0.06264	-0.03702	-5.1	-105.2
			C:BUS:WATERCURE_230					1733						
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		0.22743	-0.05429	-48.4	-195.1		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.16705	-0.07942	254.0	39.5		
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.11384	0.00000	0.4	0.4		
7719	2701.8	4129.9	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		10.0	-143.0	-0.05662	-0.03702	39.9	-60.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.09799	-0.20000	-305.2	-845.6		
7810	2740.0	4155.2	L: 130762 GARDV230	230	130767 STOLE230	230	1		259.5	478.0	0.07975	0.05668	118.8	274.1
			C:130766 ROBIN230	230	130767 STOLE230	230	1	289						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1		0.84990	0.02714	165.5	239.9		
7811	2740.2	4155.3	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-271.1	-478.0	-0.07550	-0.06068	-204.5	-370.8
			C:SER:HCWC/NWES					1707						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.00811	-0.03439	57.1	-37.1		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.12065	-0.12058	-559.2	-889.6		
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00914	0.00000	-44.7	-44.7		
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
7815	2741.8	4156.4	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-271.8	-478.0	-0.07519	-0.06068	-204.5	-370.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.12039	-0.12058	-559.2	-889.8		
7828	2745.7	4159.0	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-72.0	-558.0	-0.17699	-0.12454	-26.7	-368.7
			C:147834 NIAG 345	345	157051 BECK B	345	1	1477						
			Open 147834 NIAG 345	345	157051 BECK B	345	1		0.21073	-0.24888	-215.1	-898.5		
7829	2745.8	4159.1	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-72.0	-558.0	-0.17699	-0.12454	-26.7	-368.7
			C:147834 NIAG 345	345	157050 BECK A	345	1	1476						
			Open 147834 NIAG 345	345	157050 BECK A	345	1		0.21073	-0.24888	-215.0	-898.4		
7838	2747.7	4160.3	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		20.1	143.0	0.04473	0.03702	7.3	109.0
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37						
			Open 95646 DEANWIND	230	130772 SHRED230	230	1		0.14201	0.05429	90.2	239.4		
7850	2752.1	4163.3	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		595.1	927.0	0.12058	0.12058	528.9	860.8
			C:SIN:250					1777						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch								
7864	2754.9	4165.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		594.8	927.0	0.12058	0.12058	528.9	861.1
			C:GEN:SEAB&OMS					1674						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch								
7865	2754.9	4165.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		594.8	927.0	0.12058	0.12058	528.9	861.1
			C:GEN:SEABROOK					1672						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch								

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			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14201	-0.05429	-83.0	-233.4
7969	2771.3	4175.9	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	19.0	143.0	0.04473	0.03702	7.3	109.9	
			C:SER:OAKDALE_WATRC230				1693							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14201	-0.05429	-83.0	-233.5
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10136	0.00000	0.4	0.4
7981	2771.5	4176.1	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-975.7	-1428.0	-0.16321				
			Base Case											
7984	2771.6	4176.2	L: 131018 LOUNSI15	115	131850 CNYOG115	115	1	19.0	143.0	0.04473	0.03702	7.3	109.9	
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	288						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.14201	0.05429	82.7	233.1
7992	2772.2	4176.5	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	566.3	927.0	0.13010	0.12058	528.9	863.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.11362	-0.08382	-329.2	-561.5
8026	2774.6	4178.1	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	284.2	478.0	0.06986	0.06068	259.9	428.2	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03019	0.30418	805.2	1649.2
8030	2774.8	4178.3	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-270.0	-478.0	-0.07495	-0.06068	-204.5	-372.9	
			C:SER:HC-WC_30&W-F_171				1701							
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04656	-0.00341	-21.4	-30.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11969	-0.12058	-559.2	-893.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00937	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
8110	2779.5	4181.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	327.4	478.0	0.05418	0.06068	259.9	428.5	
			C:BUS:WATERCURE_345				1732							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04950	-0.12058	-559.2	-894.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15696	-0.07942	254.0	33.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04118	0.00000	0.0	0.0
8224	2782.5	4183.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	565.0	927.0	0.13010	0.12058	528.9	864.4	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.11362	0.08382	317.3	550.5
9394	2790.3	4188.6	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-268.2	-478.0	-0.07519	-0.06068	-204.5	-373.8	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.12039	0.12058	528.9	865.4
9432	2791.9	4189.6	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	563.8	927.0	0.13010	0.12058	528.9	865.6	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				0.11362	0.08382	306.6	540.6
9455	2793.1	4190.4	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1150.5	-1792.0	-0.22968	-0.18632	-905.3	-1425.7	
			C:BUS:N.S._77				1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.09423	-0.04054	-100.5	-213.8
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.02076	-0.00153	264.2	259.9
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.28297	0.17376	806.2	1291.6
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.06107	-0.03314	-6.3	-98.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.12967	0.00000	-250.0	-250.0
9484	2795.4	4191.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-18.0	-143.0	-0.04473	-0.03702	-5.1	-108.6	
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37						
			Open 95646 DEANWIND	230	130772 SHRED230	230	1				-0.14201	0.05429	90.2	241.9
9493	2795.8	4192.2	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	589.9	927.0	0.12058	0.12058	528.9	866.0	

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9574	2813.8	4204.1	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	-30.6	143.0	0.06168	0.03702	7.3	111.5
			C:130763 HILSD230	230	130768	WATRC230	230	1						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.18444	0.13370	-205.2	171.0
9587	2818.1	4207.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:130765 OAKDL230	230	130772	SHRED230	230	1						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14201	-0.05429	-83.0	-236.0
9589	2819.0	4207.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:SER:OAKDALE_WATRC230											1693
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14201	-0.05429	-83.0	-236.1
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.10136	0.00000	0.4	0.4
9590	2819.3	4207.8	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:130765 OAKDL230	230	130838	OAKDL115	115	1						288
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.14201	0.05429	82.7	235.7
9592	2819.7	4208.0	L: Interface	1	DYSINGER	EAS			2340.1	4208.0	0.66244			
			Base Case											
9598	2821.3	4209.1	L: 135861 MORTIMER	115	135874	SWDN-113	115	1	-57.5	-153.0	-0.03385	-0.02628	-54.9	-129.1
			C:130754 KINTI345	345	147834	NIAG 345	345	1						269
			Open 130754 KINTI345	345	147834	NIAG 345	345	1			0.03647	-0.20746	-71.0	-656.3
9613	2824.0	4210.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	288.9	478.0	0.06698	0.06068	259.9	431.2
			C:130774 BATH 115	115	131347	HOWARD	115	1						296
			Open 130774 BATH 115	115	131347	HOWARD	115	1			-0.28809	-0.02188	-100.6	-162.4
9629	2827.9	4213.5	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	257.3	478.0	0.07806	0.06068	259.9	431.4
			C:LKWANA-OXBW											1751
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			-0.12786	-0.13595	20.4	-364.1
9631	2828.5	4213.9	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	7.3	112.0	0.03702			
			Base Case											
9640	2834.4	4217.8	L: 130753 FRASR345	345	137200	EDIC	345	1	-861.5	-1380.0	-0.18292	-0.08706	-699.9	-946.6
			C:130753 FRASR345	345	130755	OAKDL345	345	1						265
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.31887	-0.30063	-506.9	-1359.0
9688	2848.4	4227.0	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	32.7	-143.0	-0.06168	-0.03702	-5.1	-110.6
			C:130763 HILSD230	230	130768	WATRC230	230	1						284
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.18444	0.13370	-205.2	175.6
9800	2864.9	4238.0	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	286.1	478.0	0.06698	0.06068	259.9	433.7
			C:131342 BENET115	115	131347	HOWARD	115	1						469
			Open 131342 BENET115	115	131347	HOWARD	115	1			0.28809	0.02188	91.1	153.8
9846	2871.3	4242.2	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.8	-927.0	-0.12058	-0.12058	-514.6	-860.8
			C:SIN:250											1777
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW								dispatch
9871	2874.1	4244.1	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.4	-927.0	-0.12058	-0.12058	-514.6	-861.1
			C:GEN:SEAB&OMS											1674
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW								dispatch
9872	2874.1	4244.1	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.4	-927.0	-0.12058	-0.12058	-514.6	-861.1
			C:GEN:SEABROOK											1672
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW								dispatch
9878	2874.8	4244.5	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-940.4	-1331.0	-0.13587			
			Base Case											
9932	2880.2	4248.1	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	14.2	143.0	0.04473	0.03702	7.3	113.9
			C: 95646 DEANWIND	230	130768	WATRC230	230	1						36

## DysingerEast

11187	2893.0	4256.6	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-550.6	-927.0	-0.13010	-0.12058	-514.6	-863.4
			C:131122 WTHRS230	230	134750	DAIRY230		230	1	458					
			Open 131122 WTHRS230	230	134750	DAIRY230		230	1			-0.11362	0.08382	317.3	559.8
11667	2902.4	4262.8	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-549.4	-927.0	-0.13010	-0.12058	-514.6	-864.5
			C: 95976 STONYCRK	230	131122	WTHRS230		230	1	42					
			Open 95976 STONYCRK	230	131122	WTHRS230		230	1			-0.11362	0.08382	306.6	549.9
11954	2904.0	4263.9	L: 136150 CLAY	345	149001	PANNELL3		345	2	-246.1	-1033.0	-0.27098			
			Base Case												
13086	2910.6	4268.2	L: 95646 DEANWIND	230	130768	WATRC230		230	1	-128.8	-440.0	-0.10693	-0.05429	-48.4	-206.5
			C:130755 OAKDL345	345	130757	WATRC345		345	1	271					
			Open 130755 OAKDL345	345	130757	WATRC345		345	1			0.26320	-0.20000	-305.2	-887.3
13164	2915.0	4271.2	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-575.5	-927.0	-0.12058	-0.12058	-514.6	-866.0
			C:GEN:MLS3&OMS							1673					
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3		24.0	1276.0	MW	dispatch							
13165	2915.0	4271.2	*L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-575.5	-927.0	-0.12058	-0.12058	-514.6	-866.0
			C:GEN:MILLST 3							1671					
			Remove unit 3 from bus 103563 MILL#3		24.0	1276.0	MW	dispatch							
13179	2916.2	4271.9	L: 136150 CLAY	345	149001	PANNELL3		345	1	-245.3	-1033.0	-0.27010			
			Base Case												
13281	2927.9	4279.7	L: 130848 S.OWE115	115	131850	CNYOG115		115	1	-12.0	-143.0	-0.04473	-0.03702	-5.1	-113.5
			C: 95646 DEANWIND	230	130768	WATRC230		230	1	36					
			Open 95646 DEANWIND	230	130768	WATRC230		230	1			0.14201	-0.05429	-48.4	-207.4
14771	2972.1	4308.9	L: 130750 COOPC345	345	130753	FRASR345		345	1	-1012.2	-1703.0	-0.23242	-0.21741	-915.5	-1561.6
			C:BUS:N.S._99							1715					
			Open 137453 N.SCOT99	345	147831	GILB	345	345	1			0.12444	-0.03437	-356.7	-458.9
			Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1			0.04696	-0.18632	-905.3	-1459.0
			Open 137453 N.SCOT99	345	137516	N.SCOT1		115	1			-0.00093	-0.00150	279.1	274.6
			Open 137451 LEEDS 3	345	137453	N.SCOT99		345	2			0.01088	-0.18165	-880.3	-1420.2
			Open 137452 N.SCOT77	345	137453	N.SCOT99		345	1			-0.00989	0.00000	2.1	2.1
15134	2991.5	4321.8	L: 135858 GOLAH115	115	135862	MUMFORD1		115	1	-57.2	-173.0	-0.03872	-0.03007	-54.2	-144.1
			C:130754 KINTI345	345	147834	NIAG	345	345	1	269					
			Open 130754 KINTI345	345	147834	NIAG	345	345	1			0.04172	-0.20746	-71.0	-691.6
15149	2997.2	4325.6	L: 147842 NIAGAR2W	230	157063	BCK2PA27		230	1	-26.7	-400.0	-0.12454			
			Base Case												

# WestCentral

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:40

HORIZON YEAR SU PEAK LOAD 40,816 MW

ICAP TRIAL #9

Case.File ICAP-T9-Rev3.sav

Subsys.File STARS-TTL.SUB

Monit.File STARS-TTL.MON

Contin.File STARS-TTL.CON

Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 15160

First violation - 530.6 MW.

Study transfer. From ONTARIO\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 15160 violations

Interface-1 Interface 2 WEST CENTRAL Init.Flow= 1105.26 TDF= 0.7304

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	530.6	1492.8	L: 135872 SOUR-111 C:147834 NIAG 345 Open 147834 NIAG 345	115	135873 SWDN-111 345 149000 ROCH 345 345 1	137.7	159.0	0.04005	0.02655	102.0	116.1	
2	700.7	1617.0	L: 135850 SOUR-114 C:147834 NIAG 345 Open 147834 NIAG 345	115	135861 MORTIMER 345 149000 ROCH 345 345 1	123.7	153.0	0.04178	0.02769	86.5	105.9	
3	703.5	1619.1	L: 135872 SOUR-111 C:130754 KINTI345 Open 130754 KINTI345	115	135873 SWDN-111 345 149000 ROCH 345 345 1	134.9	159.0	0.03419	0.02655	102.0	120.7	
4	727.1	1636.3	L: 130815 HINMN115 C:147834 NIAG 345 Open 147834 NIAG 345	115	131611 HARIS115 345 149000 ROCH 345 345 1	-275.8	-306.0	-0.04148	-0.02643	-236.0	-255.2	
5	732.4	1640.2	L: 130815 HINMN115 C:147834 NIAG 345 Open 147834 NIAG 345	115	135452 LOCKPORT 345 149000 ROCH 345 345 1	248.7	280.0	0.04270	-0.04950	0.30418	805.2	1026.4
6	745.4	1649.7	L: 130774 BATH 115 C:130751 CNDGUA_T Open 130751 CNDGUA_T	115	131347 HOWARD 230 130761 AVOCA230 230 1	-136.5	-159.0	-0.03024	-0.02188	-100.6	-117.0	
7	746.1	1650.2	L: 130774 BATH 115 C:SER:MEYER_HILLSD_68 Open 130761 AVOCA230 Open 130751 CNDGUA_T	115	131347 HOWARD 1704 230 131154 STONY RIDGE 230 130761 AVOCA230 230 1	-136.4	-159.0	-0.03024	-0.13781	-0.02188	-100.6	-117.0
8	747.7	1651.3	L: 130774 BATH 115 C:130761 AVOCA230 Open 130761 AVOCA230	115	131347 HOWARD 230 131154 STONY RIDGE 230 1	-136.4	-159.0	-0.03024	-0.09551	0.00000	0.5	0.5
9	748.9	1652.2	L: 130761 AVOCA230 C:130757 WATRC345 Open 130757 WATRC345	230	131154 STONY RIDGE 345 135249 ARMENMTN 345 1	326.7	383.0	0.07519	0.06068	259.4	304.8	
									-0.12039	-0.12058	-559.2	-649.5

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				C:130763 HILSD230	230	131154	STONY RIDGE	230	1	285									
				Open 130763 HILSD230		230	131154	STONY RIDGE	230	1			0.13781	-0.06068	-257.0	-303.0			
12	775.4	1671.6	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1		324.9	383.0	0.07495	0.06068	259.4	306.4			
				C:SER:HC-WC_30&W-F_171						1701									
				Open 135277 FALCONER	115	200579	WARREN	115	1				0.04656	-0.00341	-21.4	-24.0			
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.11969	-0.12058	-559.2	-652.7			
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00937	0.00000	-44.7	-44.7			
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
13	780.3	1675.1	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1		-324.3	-383.0	-0.07519	-0.06068	-257.0	-304.3			
				C:130757 WATRC345	345	135249	ARMENMTN	345	1	278									
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.12039	-0.12058	-559.2	-653.3			
14	786.7	1679.8	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1		-323.6	-383.0	-0.07550	-0.06068	-257.0	-304.7			
				C:SER:HCWC/NWES						1707									
				Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				0.00811	-0.03439	57.1	30.1			
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.12065	-0.12058	-559.2	-654.1			
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00914	0.00000	-44.7	-44.7			
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
15	797.4	1687.7	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1		323.0	383.0	0.07519	0.06068	259.4	307.7			
				C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35									
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.12039	0.12058	528.9	625.1			
16	798.6	1688.5	L:	130815 HINMN115	115	131611	HARIS115	115	1		-279.2	-306.0	-0.03351	-0.02643	-236.0	-257.1			
				C:130766 ROBIN230	230	130767	STOLE230	230	1	289									
				Open 130766 ROBIN230	230	130767	STOLE230	230	1				-0.26127	0.02714	165.5	187.2			
17	805.2	1693.3	L:	130815 HINMN115	115	135452	LOCKPORT	115	1		252.2	280.0	0.03450	0.02720	207.7	229.6			
				C:130766 ROBIN230	230	130767	STOLE230	230	1	289									
				Open 130766 ROBIN230	230	130767	STOLE230	230	1				0.26896	0.02714	165.5	187.4			
18	806.9	1694.6	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1		-322.5	-383.0	-0.07495	-0.06068	-257.0	-306.0			
				C:SER:HC-WC_30&W-F_171						1701									
				Open 135277 FALCONER	115	200579	WARREN	115	1				-0.04656	-0.00341	-21.4	-24.2			
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
				Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11969	-0.12058	-559.2	-656.5			
				Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00937	0.00000	-44.7	-44.7			
				Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
19	820.4	1704.5	L:	130761 AVOCA230	230	131154	STONY RIDGE	230	1		321.3	383.0	0.07519	0.06068	259.4	309.1			
				C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448									
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.12039	-0.12058	-514.6	-613.5			
20	828.8	1710.6	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1		-320.7	-383.0	-0.07519	-0.06068	-257.0	-307.3			
				C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1	35									
				Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				-0.12039	0.12058	528.9	628.9			
21	851.8	1727.4	L:	130763 HILSD230	230	131154	STONY RIDGE	230	1		-319.0	-383.0	-0.07519	-0.06068	-257.0	-308.7			
				C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448									
				Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.12039	-0.12058	-514.6	-617.3			
22	868.4	1739.5	L:	135859 LAPPINS1	115	135866	NLEROYTA	115	1		134.3	173.0	0.04461	0.02957	94.5	120.1			
				C:147834 NIAG 345	345	149000	ROCH 345	345	1	1317									
				Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04943	0.30418	805.2	1069.4			



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26	952.4	1800.9	L: 130815 HINMN115	115	131611 HARIS115	115	1	-272.7	-306.0	-0.03495	-0.02643	-236.0	-261.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.04108	0.20746	894.1	1091.7
27	958.7	1805.5	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	245.5	280.0	0.03598	0.02720	207.7	233.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04229	0.20746	894.1	1093.0
28	967.6	1811.9	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	1283.3	1685.0	0.41513	0.30418	805.2	1099.5
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.53477	0.20746	894.1	1094.8
29	997.7	1833.9	L: 130774 BATH 115	115	131347 HOWARD	115	1	-128.8	-159.0	-0.03024	-0.02188	-100.6	-122.5
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263					
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1			0.13781	-0.06068	-204.5	-265.0
30	1035.2	1861.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	326.9	383.0	0.05418	0.06068	259.4	322.2
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.04950	-0.12058	-559.2	-684.1
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.15696	-0.07942	254.0	171.8
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04118	0.00000	0.0	0.0
31	1060.3	1879.7	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.3
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	262					
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.13781	0.06068	259.9	324.2
32	1061.0	1880.2	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.3
			C:SER:MEYER_HILLS_68					1704					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13781	0.06068	259.4	323.7
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.09551	0.00000	0.5	0.5
33	1062.6	1881.4	L: 131342 BENET115	115	131347 HOWARD	115	1	126.9	159.0	0.03024	0.02188	91.1	114.4
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	281					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.13781	0.06068	259.4	323.8
34	1073.3	1889.2	L: 131342 BENET115	115	131347 HOWARD	115	1	126.5	159.0	0.03024	0.02188	91.1	114.6
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	285					
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.13781	-0.06068	-257.0	-322.1
35	1078.7	1893.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-324.6	-383.0	-0.05418	-0.06068	-257.0	-322.5
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.04950	-0.12058	-559.2	-689.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.15696	-0.07942	254.0	168.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04118	0.00000	0.0	0.0
36	1099.1	1908.0	L: 135859 LAPPINS1	115	135866 NLERROYTA	115	1	131.1	173.0	0.03808	0.02957	94.5	127.0
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			0.04103	0.20746	894.1	1122.1
37	1167.1	1957.7	L: 135872 SOUR-111	115	135873 SWDN-111	115	1	120.9	159.0	0.03261	0.02655	102.0	133.0
			C:135850 SOUR-114	115	135861 MORTIMER	115	1	746					
			Open 135850 SOUR-114	115	135861 MORTIMER	115	1			0.21890	0.02769	86.5	118.8
38	1202.8	1983.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-329.2	-430.0	-0.08382			
			Base Case										
39	1209.7	1988.8	L: 135861 MORTIMER	115	136213 LAWLER-2	115	1	119.0	159.0	0.03309	0.02298	73.7	101.5
			C:135860 LAWLER-1	115	135861 MORTIMER	115	1	762					
			Open 135860 LAWLER-1	115	135861 MORTIMER	115	1			-0.45217	-0.02235	-100.1	-127.1
40	1221.2	1997.2	L: 135862 MUMFORD1	115	135866 NLERROYTA	115	1	-117.6	-173.0	-0.04536	-0.03007	-77.1	-113.9
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			-0.05027	0.30418	805.2	1176.7
41	1223.6	1998.9	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1376.6	-1724.0	-0.28388	-0.18270	-886.3	-1109.8

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
45	1281.2	2041.0	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.34114									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
46	1299.8	2054.6	L: 130815 HINMN115	115	131611 HARS115	115	1	-262.8	-306.0	-0.03325									
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
47	1306.4	2059.4	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	235.3	280.0	0.03423									
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286											
			Open 130764 MEYER230	230	134750 DAIRY230	230	1												
48	1312.6	2063.9	L: 131342 BENET115	115	131347 HOWARD	115	1	119.3	159.0	0.03024									
			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263											
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1												
49	1328.8	2075.8	L: 130815 HINMN115	115	131611 HARS115	115	1	-261.8	-306.0	-0.03325									
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
50	1335.4	2080.6	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	234.3	280.0	0.03423									
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458											
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1												
51	1340.8	2084.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-915.5	-1207.0	-0.21741									
			Base Case																
52	1344.3	2087.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	317.3	430.0	0.08382									
			Base Case																
53	1346.5	2088.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07902									
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
54	1346.5	2088.7	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07902									
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
55	1355.0	2094.9	L: 130815 HINMN115	115	131611 HARS115	115	1	-260.9	-306.0	-0.03325									
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
56	1360.6	2099.0	L: 135850 SOUR-114	115	135861 MORTIMER	115	1	107.8	153.0	0.03324									
			C:135872 SOUR-111	115	135873 SWDN-111	115	1	780											
			Open 135872 SOUR-111	115	135873 SWDN-111	115	1												
57	1361.6	2099.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	233.4	280.0	0.03423									
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42											
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1												
58	1393.3	2122.9	L: 130815 HINMN115	115	131611 HARS115	115	1	-259.7	-306.0	-0.03325									
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1												
59	1399.9	2127.7	L: 130815 HINMN115	115	135452 LOCKPORT	115	1	232.1	280.0	0.03423									
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41											
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1												
60	1403.8	2130.6	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	128.1	180.0	0.03696									
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
61	1409.6	2134.8	L: 130815 HINMN115	115	131611 HARS115	115	1	-259.1	-306.0	-0.03325									
			C:130767 STOLE230	230	130770 SHLDN230	230	1	291											

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			Open 135851 SHEL-113	115	135874 SWDN-113	115	1		0.14808	0.02450	95.1	130.0		
65	1421.8	2143.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	283.7	383.0	0.06986	0.06068	259.4	345.6	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03019	0.30418	805.2	1237.7
66	1436.1	2154.2	L: 135860 LAWLER-1	115	135861 MORTIMER	115	1	-136.6	-185.0	-0.03372	-0.02235	-100.1	-132.2	
			C:135861 MORTIMER	115	136213 LAWLER-2	115	1	767						
			Open 135861 MORTIMER	115	136213 LAWLER-2	115	1				-0.49492	0.02298	73.7	106.7
67	1448.2	2163.0	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-286.0	-383.0	-0.06698	-0.06068	-257.0	-344.9	
			C:130774 BATH 115	115	131347 HOWARD	115	1	296						
			Open 130774 BATH 115	115	131347 HOWARD	115	1				0.28809	-0.02188	-100.6	-132.3
68	1448.7	2163.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	295.2	383.0	0.06062	0.06068	259.4	347.3	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.07644	0.00075	-468.6	-467.5
69	1454.0	2167.2	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	285.6	383.0	0.06698	0.06068	259.4	347.6	
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28809	0.02188	91.1	122.9
70	1455.5	2168.4	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-281.3	-383.0	-0.06986	-0.06068	-257.0	-345.3	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.03019	0.30418	805.2	1247.9
72	1471.9	2180.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	306.6	430.0	0.08382				
			Base Case											
73	1487.6	2191.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-292.8	-383.0	-0.06062	-0.06068	-257.0	-347.3	
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.07644	0.00075	-468.6	-467.5
74	1489.2	2192.9	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-283.3	-383.0	-0.06698	-0.06068	-257.0	-347.4	
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				-0.28809	0.02188	91.1	123.7
77	1512.4	2209.9	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-114.4	-173.0	-0.03872	-0.03007	-77.1	-122.6	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04172	0.20746	894.1	1207.9
78	1513.1	2210.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-382.6	-540.0	-0.10401	-0.08382	-329.2	-456.0	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.06637	0.30418	805.2	1265.5
79	1523.0	2217.6	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	132.8	180.0	0.03101	0.02408	102.9	139.6	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				0.03341	0.20746	894.1	1210.1
83	1557.9	2243.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.09782	-0.08382	-329.2	-459.8	
			C:SER:HCWC/NWES					1707						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02850	-0.03439	57.1	3.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10798	-0.12058	-559.2	-747.1
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00736	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
84	1560.5	2245.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.09673	-0.08382	-329.2	-460.0	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10706	-0.12058	-559.2	-747.4
85	1568.0	2250.5	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-96.8	-153.0	-0.03582	-0.02781	-62.3	-105.9	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.03859	0.20746	894.1	1219.4

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
89	1590.3	2266.8	L: 135872 SOUR-111	115	135873 SWDN-111	115	1		104.6	159.0	0.03419								
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269											
			Open 130754 KINTI345	345	147834 NIAG 345	345	1												
91	1594.0	2269.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-385.8	-540.0	-0.09673								
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35											
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1												
93	1598.6	2272.8	L: 137532 RTRDM1	115	137730 ROTRDM.2	230	2		-353.2	-402.0	-0.03052								
			C:137532 RTRDM1	115	137730 ROTRDM.2	230	1	1177											
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1												
95	1610.0	2281.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-384.3	-540.0	-0.09673								
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448											
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
99	1621.0	2289.2	L: 130815 HINMN115	115	135452 LOCKPORT	115	1		231.2	280.0	0.03007								
			C:135468 SNBRN102	115	147850 NIAG115E	115	1	699											
			Open 135468 SNBRN102	115	147850 NIAG115E	115	1												
100	1621.2	2289.4	*L: 130815 HINMN115	115	135452 LOCKPORT	115	1		230.9	280.0	0.03027								
			C:135452 LOCKPORT	115	135464 SANBORNT	115	1	663											
			Open 135452 LOCKPORT	115	135464 SANBORNT	115	1												
101	1623.6	2291.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-559.2	-755.0	-0.12058								
			Base Case																
104	1627.2	2293.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		370.8	540.0	0.10401								
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
105	1629.9	2295.7	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		805.2	1301.0	0.30418								
			Base Case																
111	1658.8	2316.8	L: 95976 STONYCRK	230	130770 SHLDN230	230	1		-291.0	-430.0	-0.08382								
			Base Case																
112	1667.7	2323.3	L: 135850 SOUR-114	115	135861 MORTIMER	115	1		98.1	153.0	0.03290								
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	765											
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1												
113	1669.9	2324.9	L: 130757 WATRC345	345	130768 WATRC230	230	1		482.5	600.0	0.07033								
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271											
			Open 130755 OAKDL345	345	130757 WATRC345	345	1												
114	1679.2	2331.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		375.7	540.0	0.09782								
			C:SER:HCWC/NWES					1707											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1												
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA										
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1												
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1		NA										
115	1683.1	2334.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		377.2	540.0	0.09673								
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1												
116	1696.3	2344.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-378.4	-540.0	-0.09525								
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270											
			Open 130754 KINTI345	345	149000 ROCH 345	345	1												
117	1699.2	2346.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		375.9	540.0	0.09656								

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			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.10846	0.21523	1036.7	1404.5
121	1708.9	2353.4	L: 146758 CHESTER	138	146773	SGRLF138	138	1	228.1	317.0	0.05204		0.02869	115.6	164.7
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.10846	0.21523	1036.7	1404.5
123	1716.7	2359.1	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	373.9	540.0	0.09673		0.08382	317.3	461.2
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1							35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.10706	0.12058	528.9	735.9
125	1724.9	2365.1	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-77.1	-129.0	-0.03007				
			Base Case												
126	1726.3	2366.1	L: 135851 SHEL-113	115	135874	SWDN-113	115	1	125.5	180.0	0.03156		0.02450	95.1	137.4
			C:130754 KINTI345	345	149000	ROCH 345	345	1							270
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.03400	0.20746	894.1	1252.2
127	1726.9	2366.5	L: 135858 GOLAH115	115	135862	MUMFORD1	115	1	-94.7	-173.0	-0.04536		-0.03007	-54.2	-106.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1317
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				-0.05027	0.30418	805.2	1330.5
128	1729.9	2368.8	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	360.1	540.0	0.10401		0.08382	306.6	451.6
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1317
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.06637	0.30418	805.2	1331.4
129	1732.6	2370.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	372.4	540.0	0.09673		0.08382	317.3	462.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1							1448
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.10706	-0.12058	-514.6	-723.5
131	1737.8	2374.5	L: 130767 STOLE230	230	130770	SHLDN230	230	1	284.3	430.0	0.08382				
			Base Case												
144	1768.8	2397.2	L: 130750 COOPC345	345	130753	FRASR345	345	1	-1219.0	-1703.0	-0.27365		-0.21741	-915.5	-1300.1
			C:130750 COOPC345	345	147833	MARCY T1	345	1							261
			Open 130750 COOPC345	345	147833	MARCY T1	345	1				0.42859	-0.13121	-708.1	-940.2
153	1788.4	2411.5	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	365.1	540.0	0.09782		0.08382	306.6	456.5
			C:SER:HCWC/NWES												1707
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.02850	-0.03439	57.1	-4.4
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10798	-0.12058	-559.2	-774.9
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00736	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1				NA			
154	1789.5	2412.3	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	89.2	153.0	0.03566		0.02769	86.5	136.0
			C:130754 KINTI345	345	147834	NIAG 345	345	1							269
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				-0.03842	-0.20746	-71.0	-442.2
157	1793.7	2415.3	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	366.5	540.0	0.09673		0.08382	306.6	457.0
			C:130757 WATRC345	345	135249	ARMENMTN	345	1							278
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10706	-0.12058	-559.2	-775.5
158	1806.2	2424.4	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	97.8	153.0	0.03058		0.02769	86.5	136.5
			C:130764 MEYER230	230	134750	DAIRY230	230	1							286
			Open 130764 MEYER230	230	134750	DAIRY230	230	1				-0.03440	-0.08382	-329.2	-480.6
159	1809.9	2427.2	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	365.2	540.0	0.09656		0.08382	306.6	458.3
			C:SER:HC-WC_30&W-F_171												1701
			Open 135277 FALCONER	115	200579	WARREN	115	1				0.03156	-0.00341	-21.4	-27.6
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				NA			
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10659	-0.12058	-559.2	-777.5
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1				NA			
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00752	0.00000	-44.7	-44.7

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			Open	95593	CHERYFLT	345	135249	ARMENMTN	345	1			0.10706	0.12058	528.9	749.3
171	1831.5	2443.0	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	97.0	153.0	0.03058	0.02769	86.5	137.2
			C:	95976	STONYCRK	230	131122	WTHRS230	230	1	42					
			Open	95976	STONYCRK	230	131122	WTHRS230	230	1			0.03440	0.08382	306.6	460.1
174	1840.0	2449.2	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1	600.6	746.0	0.07902	0.04882	455.1	545.0
			C:	125001	ROCK TAV	345	126297	RAMAPO	345	1	69					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.14032	0.21523	1036.7	1432.7
175	1840.0	2449.2	L:	146754	MDTN TAP	345	146772	SHOEMTAP	138	1	600.6	746.0	0.07902	0.04882	455.1	545.0
			C:	SIN:440							1783					
			Open	125001	ROCK TAV	345	126297	RAMAPO	345	1			0.14032	0.21523	1036.7	1432.7
176	1840.8	2449.7	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	96.4	153.0	0.03073	0.02769	86.5	137.4
			C:	135856	EBAT-119	115	135859	LAPPINS1	115	1	754					
			Open	135856	EBAT-119	115	135859	LAPPINS1	115	1			0.10263	0.02957	97.3	151.7
177	1843.1	2451.4	L:	95976	STONYCRK	230	131122	WTHRS230	230	1	361.7	540.0	0.09673	0.08382	306.6	461.1
			C:	95593	CHERYFLT	345	200769	HOMER CY	345	1	1448					
			Open	95593	CHERYFLT	345	200769	HOMER CY	345	1			-0.10706	-0.12058	-514.6	-736.8
178	1848.5	2455.4	L:	130764	MEYER230	230	134750	DAIRY230	230	1	-389.2	-540.0	-0.08157	-0.08382	-329.2	-484.1
			C:	BUS:WATERCURE_345							1732					
			Open	130757	WATRC345	345	135249	ARMENMTN	345	1			0.05592	-0.12058	-559.2	-782.1
			Open	130757	WATRC345	345	130768	WATRC230	230	1			-0.11323	-0.07942	254.0	107.2
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.04915	0.00000	0.0	0.0
179	1849.2	2455.8*	L:	135850	SOUR-114	115	135861	MORTIMER	115	1	96.5	153.0	0.03058	0.02769	86.5	137.7
			C:	95976	STONYCRK	230	130770	SHLDN230	230	1	41					
			Open	95976	STONYCRK	230	130770	SHLDN230	230	1			-0.03440	-0.08382	-291.0	-446.0
193	1865.5	2467.8	L:	130750	COOPC345	345	146754	MDTN TAP	345	1	1255.1	1793.0	0.28835	0.18222	817.4	1157.3
			C:	125001	ROCK TAV	345	130750	COOPC345	345	2	70					
			Open	125001	ROCK TAV	345	130750	COOPC345	345	2			-0.63780	-0.16641	-686.3	-996.7
196	1868.8	2470.2	L:	131018	LOUNS115	115	131850	CNYOG115	115	1	37.2	143.0	0.05662	0.03702	7.3	76.5
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	271					
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			-0.09799	-0.20000	-305.2	-679.0
201	1874.9	2474.6	L:	95593	CHERYFLT	345	135249	ARMENMTN	345	1	528.9	755.0	0.12058			
			Base Case													
206	1880.6	2478.8	L:	95976	STONYCRK	230	130770	SHLDN230	230	1	-344.4	-540.0	-0.10401	-0.08382	-291.0	-448.6
			C:	147834	NIAG 345	345	149000	ROCH 345	345	1	1317					
			Open	147834	NIAG 345	345	149000	ROCH 345	345	1			-0.06637	0.30418	805.2	1377.2
210	1885.3	2482.2	L:	146758	CHESTER	138	146771	SHOEM138	138	1	-219.0	-317.0	-0.05196	-0.02869	-156.0	-210.0
			C:	125001	ROCK TAV	345	146754	MDTN TAP	345	1	71					
			Open	125001	ROCK TAV	345	146754	MDTN TAP	345	1			0.17442	-0.13340	-361.7	-613.2
216	1891.3	2486.6	L:	149000	ROCH 345	345	149001	PANNELL3	345	2	810.6	1685.0	0.46235	0.25767	451.6	939.0
			C:	149000	ROCH 345	345	149001	PANNELL3	345	1	1383					
			Open	149000	ROCH 345	345	149001	PANNELL3	345	1			0.79700	0.25682	450.3	936.1
219	1893.7	2488.3	L:	149000	ROCH 345	345	149001	PANNELL3	345	1	810.1	1685.0	0.46204	0.25682	450.3	936.7
			C:	149000	ROCH 345	345	149001	PANNELL3	345	2	1384					
			Open	149000	ROCH 345	345	149001	PANNELL3	345	2			0.79647	0.25767	451.6	939.6
234	1906.4	2497.7	L:	130848	S.OWE115	115	131850	CNYOG115	115	1	-35.1	-143.0	-0.05662	-0.03702	-5.1	-75.7
			C:	130755	OAKDL345	345	130757	WATRC345	345	1	271					
			Open	130755	OAKDL345	345	130757	WATRC345	345	1			0.09799	-0.20000	-305.2	-686.5
245	1920.0	2507.6	L:	130815	HINMN115	115	131611	HARIS115	115	1	-238.9	-306.0	-0.03495	-0.02643	-236.0	-286.7
			C:	130754	KINTI345	345	147834	NIAG 345	345	1	269					
			Open	130754	KINTI345	345	147834	NIAG 345	345	1			0.04108	-0.20746	-71.0	-469.3

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270	1948.1	2528.1	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.4	336.0	0.05060	0.02314	119.8	164.9
			C:130751 CNDGUA_T	230	130761 AVOCA230	230	1	262					
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.45253	0.06068	259.9	378.1
272	1948.5	2528.4	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.4	336.0	0.05060	0.02314	119.8	164.9
			C:SER:MEYER_HILLSD_68					1704					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45253	0.06068	259.4	377.6
			Open 130751 CNDGUA_T	230	130761 AVOCA230	230	1			0.41258	0.00000	0.5	0.5
273	1948.6	2528.5	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-349.4	-540.0	-0.09782	-0.08382	-291.0	-454.3
			C:SER:HCWC/NWES					1707					
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			0.02850	-0.03439	57.1	-9.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10798	-0.12058	-559.2	-794.2
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00736	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
276	1952.5	2531.3	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	237.2	336.0	0.05060	0.02314	119.8	165.0
			C:130761 AVOCA230	230	131154 STONY RIDGE	230	1	281					
			Open 130761 AVOCA230	230	131154 STONY RIDGE	230	1			0.45253	0.06068	259.4	377.8
280	1955.6	2533.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-350.8	-540.0	-0.09673	-0.08382	-291.0	-454.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10706	-0.12058	-559.2	-795.0
290	1961.3	2537.7	L: 130754 KINTI345	345	149000 ROCH 345	345	1	894.1	1301.0	0.20746			
			Base Case										
298	1972.2	2545.7	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-349.6	-540.0	-0.09656	-0.08382	-291.0	-456.3
			C:SER:HC-WC_30&W-F_171					1701					
			Open 135277 FALCONER	115	200579 WARREN	115	1			-0.03156	-0.00341	-21.4	-28.1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.10659	-0.12058	-559.2	-797.0
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.00752	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWWD	34.5	1	NA					
299	1973.6	2546.7	L: 130764 MEYER230	230	131343 MEYER M4	34.5	1	236.1	336.0	0.05060	0.02314	119.8	165.5
			C:130763 HILSD230	230	131154 STONY RIDGE	230	1	285					
			Open 130763 HILSD230	230	131154 STONY RIDGE	230	1			-0.45253	-0.06068	-257.0	-376.8
316	1986.0	2555.7	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	97.4	173.0	0.03808	0.02957	94.5	153.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.04103	-0.20746	-71.0	-483.0
326	1989.2	2558.1	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-347.6	-540.0	-0.09673	-0.08382	-291.0	-457.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35					
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10706	0.12058	528.9	768.8
346	1993.9	2561.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.4	540.0	0.08157	0.08382	317.3	484.4
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05592	-0.12058	-559.2	-799.7
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11323	-0.07942	254.0	95.7
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04915	0.00000	0.0	0.0
347	1994.1	2561.7	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1	-514.6	-755.0	-0.12058			
			Base Case										
381	2005.1	2569.7	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-346.1	-540.0	-0.09673	-0.08382	-291.0	-459.0
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10706	-0.12058	-514.6	-756.3

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			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1			0.00914	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA					
410	2016.3	2577.9	L:	130767	STOLE230	230	130770	SHLDN230		230	1	342.8	540.0	0.09782	0.08382	284.3	453.3
			C:	SER:HCWC/NWES							1707						
			Open	130836	N.WAV115	115	200676	E.SAYRE		115	1			-0.02850	-0.03439	57.1	-12.2
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA					
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1			-0.10798	-0.12058	-559.2	-802.4
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA					
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1			0.00736	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA					
451	2024.1	2583.6	L:	130767	STOLE230	230	130770	SHLDN230		230	1	344.2	540.0	0.09673	0.08382	284.3	454.0
			C:	130757	WATRC345	345	135249	ARMENMTN		345	1	278					
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1			-0.10706	-0.12058	-559.2	-803.3
500	2027.9	2586.4	L:	147834	NIAG 345	345	149000	ROCH 345		345	1	843.1	1685.0	0.41513	0.30418	805.2	1422.1
			C:	130754	KINTI345	345	147834	NIAG 345		345	1	269					
			Open	130754	KINTI345	345	147834	NIAG 345		345	1			-0.53477	-0.20746	-71.0	-491.7
679	2035.3	2591.8	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	106.6	173.0	0.03265	0.02957	94.5	154.6
			C:	130764	MEYER230	230	134750	DAIRY230		230	1	286					
			Open	130764	MEYER230	230	134750	DAIRY230		230	1			-0.03673	-0.08382	-329.2	-499.8
770	2036.3	2592.6	L:	130751	CNDGUA_T	230	130761	AVOCA230		230	1	325.4	478.0	0.07495	0.06068	259.9	383.4
			C:	SER:HC-WC_30&W-F_171							1701						
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.04656	-0.00341	-21.4	-28.3
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA					
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1			-0.11969	-0.12058	-559.2	-804.8
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA					
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1			0.00937	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA					
1316	2037.6	2593.5	L:	130761	AVOCA230	230	131154	STONY RIDGE		230	1	259.4	383.0	0.06068			
				Base Case													
1868	2040.7	2595.8	L:	130767	STOLE230	230	130770	SHLDN230		230	1	342.9	540.0	0.09656	0.08382	284.3	455.4
			C:	SER:HC-WC_30&W-F_171							1701						
			Open	135277	FALCONER	115	200579	WARREN		115	1			0.03156	-0.00341	-21.4	-28.4
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1	NA					
			Open	130757	WATRC345	345	135249	ARMENMTN		345	1			-0.10659	-0.12058	-559.2	-805.3
			Open	135248	ARMENMTN	345	135249	ARMENMTN		345	1	NA					
			Open	95593	CHERYFLT	345	200769	HOMER	CY	345	1			0.00752	0.00000	-44.7	-44.7
			Open	95593	CHERYFLT	345	95594	CHERYWND		34.5	1	NA					
2011	2048.7	2601.5	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	106.1	173.0	0.03265	0.02957	94.5	155.0
			C:	131122	WTHRS230	230	134750	DAIRY230		230	1	458					
			Open	131122	WTHRS230	230	134750	DAIRY230		230	1			0.03673	0.08382	317.3	489.0
2050	2054.3	2605.6	L:	130751	CNDGUA_T	230	130761	AVOCA230		230	1	323.5	478.0	0.07519	0.06068	259.9	384.5
			C:	95593	CHERYFLT	345	135249	ARMENMTN		345	1	35					
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1			0.12039	0.12058	528.9	776.6
2062	2057.6	2608.1	L:	130767	STOLE230	230	130770	SHLDN230		230	1	341.0	540.0	0.09673	0.08382	284.3	456.8
			C:	95593	CHERYFLT	345	135249	ARMENMTN		345	1	35					
			Open	95593	CHERYFLT	345	135249	ARMENMTN		345	1			0.10706	0.12058	528.9	777.0
2085	2060.7	2610.3	L:	135859	LAPPINS1	115	135866	NLEROYTA		115	1	105.7	173.0	0.03265	0.02957	94.5	155.4
			C:	95976	STONYCRK	230	131122	WTHRS230		230	1	42					
			Open	95976	STONYCRK	230	131122	WTHRS230		230	1			0.03673	0.08382	306.6	479.4
2091	2061.8	2611.1	L:	130764	MEYER230	230	134750	DAIRY230		230	1	-367.1	-540.0	-0.08388	-0.08382	-329.2	-502.0



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			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
2282	2073.5	2619.7	L: 130767 STOLE230	230	130770 SHLDN230	230	1	339.4	540.0	0.09673	0.08382	284.3	458.1	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10706	-0.12058	-514.6	-764.6
2384	2075.0	2620.8	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-366.0	-540.0	-0.08388	-0.08382	-329.2	-503.1	
			C:HQ-NY-765-New					1877						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02479	0.00121	888.3	890.8
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02479	0.00105	774.3	776.4
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				-0.00000	-0.00113	-150.9	-153.2
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				-0.00244	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
2919	2076.5	2621.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-257.0	-383.0	-0.06068				
			Base Case											
3358	2077.3	2622.4	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.07519	0.06068	259.9	385.9	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.12039	-0.12058	-514.6	-765.0
3443	2078.3	2623.2	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	105.1	173.0	0.03265	0.02957	94.5	155.9	
			C: 95976 STONYCRK	230	130770 SHLDN230	230	1	41						
			Open 95976 STONYCRK	230	130770 SHLDN230	230	1				-0.03673	-0.08382	-291.0	-465.2
3622	2085.8	2628.6	L: 135859 LAPPINS1	115	135866 NLEROYTA	115	1	104.9	173.0	0.03265	0.02957	94.5	156.1	
			C:130767 STOLE230	230	130770 SHLDN230	230	1	291						
			Open 130767 STOLE230	230	130770 SHLDN230	230	1				0.03673	0.08382	284.3	459.2
3642	2087.9	2630.2	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-950.7	-1345.0	-0.18884	-0.13121	-708.1	-982.0	
			C:130750 COOPC345	345	130753 FRASR345	345	1	257						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26505	-0.21741	-915.5	-1369.4
3653	2090.1	2631.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-701.2	-1380.0	-0.32480	-0.30063	-506.9	-1135.3	
			C:130753 FRASR345	345	137200 EDIC	345	1	267						
			Open 130753 FRASR345	345	137200 EDIC	345	1				0.27753	-0.08706	-699.9	-881.8
3678	2097.5	2637.2	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-340.2	-540.0	-0.09525	-0.08382	-291.0	-466.8	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.05509	0.20746	894.1	1329.3
3696	2104.7	2642.5	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1	-91.5	-173.0	-0.03872	-0.03007	-54.2	-117.5	
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1				-0.04172	0.20746	894.1	1330.7
3720	2116.7	2651.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1219.4	-1724.0	-0.23841	-0.18270	-886.3	-1273.0	
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.34138	-0.16321	-975.7	-1321.1
3724	2118.6	2652.6	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-671.4	-927.0	-0.12063	-0.12058	-559.2	-814.7	
			C:SPS:MARCY_AT1_AT2					1696						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02337	0.00121	888.3	890.8



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			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	890.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	776.6	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
3822	2216.5	2724.1	*L: 131122 WTHRS230	230	134750 DAIRY230	230	1		354.1	540.0	0.08388	0.08382	317.3	503.1
			C:HQ-NY-765-New				1877							
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	890.9	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	776.6	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0		percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0		MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0		percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0		MW dispatch						
3829	2230.6	2734.5	L: 130794 DELHI115	115	130804 DEL T115	115	1		27.8	164.0	0.06107	0.03313	-19.3	54.6
			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			-0.09294	-0.30063	-506.9	-1177.5	
3840	2261.9	2757.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2		-1165.4	-1793.0	-0.27745	-0.16641	-686.3	-1062.7
			C:SER:CMT34&MTR34				1692							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1			-0.55071	0.18222	817.4	1229.5	
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			0.08019	-0.13340	-361.7	-663.4	
3850	2279.5	2770.2	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1143.5	-1724.0	-0.25464	-0.18165	-880.3	-1294.4
			C:BUS:N.S._77				1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.60286	-0.04054	-100.5	-192.9	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.39246	-0.00153	264.2	260.7	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.32367	0.17376	806.2	1202.3	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.25025	-0.03314	-6.3	-81.8	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.18777	0.00000	-250.0	-250.0	
3859	2290.3	2778.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		987.8	1685.0	0.30440	0.30418	805.2	1501.9
			C:SPS:MARCY_AT1_AT2				1696							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.09629	0.00121	888.3	891.0	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.09629	0.00105	774.3	776.7	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						

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			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.02957	-0.00150	279.1	275.6	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.06746	-0.18165	-880.3	-1297.9	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.09502	0.00000	2.1	2.1	
3872	2302.8	2787.2	L: 130794 DELHI115	115	130838 OAKDL115	115	1	-79.0	-179.0	-0.04343	-0.02248	-43.7	-95.4
			C:130753 FRASR345	345	130755 OAKDL345	345	1	265					
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.06968	-0.30063	-506.9	-1199.2	
3874	2306.6	2790.0	L: 147834 NIAG 345	345	149000 ROCH 345	345	1	982.9	1685.0	0.30440	0.30418	805.2	1506.8
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.09629	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.09629	0.00105	774.3	776.7	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.01657	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
3879	2317.1	2797.6	L: 95976 STONYCRK	230	130770 SHLDN230	230	1	-351.0	-540.0	-0.08157	-0.08382	-291.0	-485.2
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.05592	-0.12058	-559.2	-838.6	
			Open 130757 WATRC345	345	130768 WATRC230	230	1		-0.11323	-0.07942	254.0	70.0	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.04915	0.00000	0.0	0.0	
3885	2330.5	2807.4	L: 130836 N.WAV115	115	131018 LOUNSI115	115	1	41.0	173.0	0.05662	0.03702	11.1	97.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		-0.09799	-0.20000	-305.2	-771.3	
3886	2330.6	2807.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	344.5	540.0	0.08388	0.08382	306.6	502.0
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02479	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02479	0.00105	774.3	776.7	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.00244	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3895	2343.9	2817.2	*L: 95976 STONYCRK	230	131122 WTHRS230	230	1	343.4	540.0	0.08388	0.08382	306.6	503.1
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.02479	0.00121	888.3	891.1	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.02479	0.00105	774.3	776.7	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00113	-150.9	-153.5	

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3897	2345.8	2818.6	L: 130787 CODNT115	115	130830 MONTR115	115	1	-19.3	-144.0	-0.05316	-0.03652	6.1	-79.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271					
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.08324	-0.20000	-305.2	-774.4
3915	2369.6	2836.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.24725	-0.18632	-905.3	-1346.8
			C:SIN:160					1770					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35063	0.17376	806.2	1218.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19962	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			-0.00024	-0.00017	40.8	40.4
3916	2369.6	2836.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.24725	-0.18632	-905.3	-1346.8
			C:SIN:150					1769					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.35063	0.17376	806.2	1218.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.19964	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILLION	115	1			-0.00016	-0.00010	46.2	45.9
3917	2369.8	2836.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	641.1	927.0	0.12063	0.12058	528.9	814.7
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02337	0.00121	888.3	891.1
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02337	0.00105	774.3	776.8
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA				
			Open 156 MCY765SW	765	147827 MARCY765	765	1		NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA				
3943	2398.2	2856.9	L: 130767 STOLE230	230	130770 SHLDN230	230	1	344.4	540.0	0.08157	0.08382	284.3	485.4
			C:BUS:WATERCURE_345					1732					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.05592	-0.12058	-559.2	-848.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1			0.11323	-0.07942	254.0	63.6
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.04915	0.00000	0.0	0.0
3944	2399.2	2857.6	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1	-80.1	-173.0	-0.03872	-0.03007	-77.1	-149.3
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			0.04172	-0.20746	-71.0	-568.7
3956	2409.8	2865.3	L: 135452 LOCKPORT	115	135851 SHEL-113	115	1	105.3	180.0	0.03101	0.02408	102.9	160.9
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03341	-0.20746	-71.0	-570.9
3975	2425.7	2876.9	L: 130750 COOPC345	345	130753 FRASR345	345	1	-985.3	-1703.0	-0.29587	-0.21741	-915.5	-1442.9
			C:130753 FRASR345	345	147831 GILB 345	345	1	268					
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39710	0.19757	175.8	655.1
3989	2434.2	2883.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-886.3	-1331.0	-0.18270			
			Base Case										
3994	2436.3	2884.7	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	633.1	927.0	0.12063	0.12058	528.9	822.7
			C:HQ-NY-765-New					1877					
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA				
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02337	0.00121	888.3	891.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02337	0.00105	774.3	776.8
			Open 156 MCY765SW	765	147827 MARCY765	765	1		NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1			-0.00000	-0.00113	-150.9	-153.6
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1			-0.05390	0.00000	-153.0	-153.0

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			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1				-0.45253	-0.06068	-204.5	-352.7		
4006	2447.6	2892.9	L: 136150 CLAY	345	149001 PANNELL3	345	2				-388.1	-1434.0	-0.42732	-0.27098	-246.1	-909.3
			C:136150 CLAY	345	149001 PANNELL3	345	1	791								
			Open 136150 CLAY	345	149001 PANNELL3	345	1				0.57883	-0.27010	-245.3	-906.4		
4010	2452.2	2896.3	L: 136150 CLAY	345	149001 PANNELL3	345	1				-387.6	-1434.0	-0.42674	-0.27010	-245.3	-907.7
			C:136150 CLAY	345	149001 PANNELL3	345	2	792								
			Open 136150 CLAY	345	149001 PANNELL3	345	2				0.57803	-0.27098	-246.1	-910.6		
4015	2454.8	2898.2	L: 135861 MORTIMER	115	135873 SWDN-111	115	1				-65.1	-153.0	-0.03582	-0.02781	-62.3	-130.6
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269								
			Open 130754 KINTI345	345	147834 NIAG 345	345	1				0.03859	-0.20746	-71.0	-580.2		
4032	2466.2	2906.5	L: 131243 SLEIG115	115	149004 S121 B#2	115	1				-107.3	-189.0	-0.03312	-0.02266	-97.8	-153.7
			C:136150 CLAY	345	149001 PANNELL3	345	2	792								
			Open 136150 CLAY	345	149001 PANNELL3	345	2				0.03858	-0.27098	-246.1	-914.4		
4045	2471.6	2910.4	L: 131243 SLEIG115	115	149004 S121 B#2	115	1				-107.3	-189.0	-0.03306	-0.02266	-97.8	-153.8
			C:136150 CLAY	345	149001 PANNELL3	345	1	791								
			Open 136150 CLAY	345	149001 PANNELL3	345	1				0.03851	-0.27010	-245.3	-912.9		
4062	2478.6	2915.5	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.24601	-0.18632	-905.3	-1367.1
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024								
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17376	806.2	1236.9		
4070	2481.1	2917.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18165			
			Base Case													
4091	2487.5	2922.1	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1				-98.2	-173.0	-0.03009	-0.03007	-77.1	-151.9
			C:SPS:MARCY_AT1_AT2					1696								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.00904	0.00121	888.3	891.3		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.00904	0.00105	774.3	776.9		
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA								
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA								
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00113	-150.9	-153.7		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA								
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.00440	0.00000	-1360.8	-1360.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA								
4092	2487.7	2922.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-54.2	-129.0	-0.03007			
			Base Case													
4095	2488.3	2922.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-506.9	-1255.0	-0.30063			
			Base Case													
4101	2488.9	2923.1	L: 95593 CHERYFLT	345	200769 HOMER CY	345	1				-626.8	-927.0	-0.12063	-0.12058	-514.6	-814.7
			C:SPS:MARCY_AT1_AT2					1696								
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02337	0.00121	888.3	891.3		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02337	0.00105	774.3	776.9		
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA								
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA								
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA								
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.00113	-150.9	-153.7		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA								
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.05390	0.00000	-1360.8	-1360.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA								
4173	2500.9	2931.8	L: 130757 WATRC345	345	135249 ARMENMTN	345	1				-625.4	-927.0	-0.12058	-0.12058	-559.2	-860.8
			C:SIN:250					1777								
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2				-0.00000	0.00000	-0.0	-0.0		



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			C:GEN:GINNA				1661						
			Remove unit 1 from bus 149140 GINNA 19	19.0	582.0 MW	dispatch							
5746	2542.7	2962.4	L: 135862 MUMFORD1	115	135866 NLEROYTA	115 1		-88.6	-173.0	-0.03320	-0.03007	-77.1	-153.6
			C: 95976 STONYCRK	230	131122 WTHRS230	230 1	42						
			Open 95976 STONYCRK	230	131122 WTHRS230	230 1				-0.03735	0.08382	306.6	519.8
5749	2543.3	2962.8	L: 137200 EDIC	345	137452 N.SCOT77	345 1		1124.6	1724.0	0.23569	0.17376	806.2	1248.2
			C:SIN:170				1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345 1		-0.33240	-0.18632			-905.3	-1379.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115 1		0.19128	0.00000			91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115 1		0.00025	-0.00017			40.8	40.4
5750	2543.3	2962.8	L: 137200 EDIC	345	137452 N.SCOT77	345 1		1124.6	1724.0	0.23569	0.17376	806.2	1248.2
			C:SIN:180				1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345 1		-0.33240	-0.18632			-905.3	-1379.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115 1		0.19130	0.00000			91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115 1		0.00017	-0.00010			46.2	45.9
5754	2544.5	2963.7	L: 130757 WATRC345	345	135249 ARMENMTN	345 1		-620.2	-927.0	-0.12058	-0.12058	-559.2	-866.0
			C:GEN:MILLST 3				1671						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
5755	2544.5	2963.7	L: 130757 WATRC345	345	135249 ARMENMTN	345 1		-620.2	-927.0	-0.12058	-0.12058	-559.2	-866.0
			C:GEN:MLS3&OMS				1673						
			Open 100508 SANDB115	115	100509 SB RCTOR	115 2				-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch							
5756	2544.6	2963.7	L: 147834 NIAG 345	345	149000 ROCH 345	345 1		869.4	1685.0	0.32053	0.30418	805.2	1579.2
			C:130764 MEYER230	230	134750 DAIRY230	230 1	286						
			Open 130764 MEYER230	230	134750 DAIRY230	230 1				-0.19501	-0.08382	-329.2	-542.5
5760	2546.1	2964.8	L: 130848 S.OWE115	115	131850 CNYOG115	115 1		-8.6	-143.0	-0.05277	-0.03702	-5.1	-99.4
			C:BUS:WATERCURE_345				1732						
			Open 130757 WATRC345	345	135249 ARMENMTN	345 1				0.05701	-0.12058	-559.2	-866.2
			Open 130757 WATRC345	345	130768 WATRC230	230 1				0.11175	-0.07942	254.0	51.8
			Open 130755 OAKDL345	345	130757 WATRC345	345 1				0.05532	0.00000	0.0	0.0
5761	2546.4	2965.1	L: 130753 FRASR345	345	130755 OAKDL345	345 1		-585.4	-1380.0	-0.31205	-0.30063	-506.9	-1272.5
			C:BUS:N.S._77				1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345 1				-0.00036	-0.04054	-100.5	-203.8
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115 1				0.01971	-0.00153	264.2	260.3
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345 01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345 1				-0.07055	0.17376	806.2	1248.7
			Open 137450 ALPS345	345	137452 N.SCOT77	345 1				-0.02581	-0.03314	-6.3	-90.7
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345 1				0.10798	0.00000	-250.0	-250.0
5765	2549.5	2967.3	L: 147834 NIAG 345	345	149000 ROCH 345	345 1		909.5	1685.0	0.30418	0.30418	805.2	1580.7
			C:GEN:GINNA				1661						
			Remove unit 1 from bus 149140 GINNA 19	19.0	582.0 MW	dispatch							
5766	2549.7	2967.5	L: 130757 WATRC345	345	135249 ARMENMTN	345 1		-595.3	-927.0	-0.13010	-0.12058	-559.2	-866.7
			C:131122 WTHRS230	230	134750 DAIRY230	230 1	458						
			Open 131122 WTHRS230	230	134750 DAIRY230	230 1				-0.11362	0.08382	317.3	531.0
5770	2551.8	2969.0	L: 147834 NIAG 345	345	149000 ROCH 345	345 1		867.1	1685.0	0.32053	0.30418	805.2	1581.4
			C:131122 WTHRS230	230	134750 DAIRY230	230 1	458						
			Open 131122 WTHRS230	230	134750 DAIRY230	230 1				0.19501	0.08382	317.3	531.2
5775	2553.1	2970.0	L: 130750 COOPC345	345	130753 FRASR345	345 1		-1078.4	-1703.0	-0.24466	-0.21741	-915.5	-1470.6
			C:137451 LEEDS 3	345	147831 GILB 345	345 1	1086						
			Open 137451 LEEDS 3	345	147831 GILB 345	345 1				0.16693	-0.16321	-975.7	-1392.4



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5786	2555.5	2971.7	L: 95593	CHERYFLT	345	200769	HOMER	CY	345	1	-618.7	-927.0	-0.12063	0.00090	-0.00017	40.8	40.4
			C:HQ-NY-765-New							1877							
			Open	147827	MARCY765	765	147828	MASS	765	765	1	NA					
			Open	147828	MASS	765	180819	CHA-NY		765	1	NA					
			Open	147827	MARCY765	765	147833	MARCY	T1	345	1			-0.02337	0.00121	888.3	891.4
			Open	147827	MARCY765	765	147833	MARCY	T1	345	2			-0.02337	0.00105	774.3	777.0
			Open	156	MCY765SW	765	147827	MARCY765		765	1	NA					
			Open	147838	MASS230B	230	147839	MOSES	E	230	1			0.00000	-0.00113	-150.9	-153.8
			Open	147828	MASS	765	147838	MASS230B		230	1	NA					
			Open	147837	MASS230A	230	147839	MOSES	E	230	1			0.05390	0.00000	-153.0	-153.0
			Open	147828	MASS	765	147837	MASS230A		230	1	NA					
			Open	158	MS765SW2	765	147828	MASS	765	765	1	NA					
			Open	157	MS765SW1	765	147828	MASS	765	765	1	NA					
			Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181319	CHAT	G3	120	load	to	357.0	MW	dispatch				
			Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch					
			Set	bus	181419	CHAT	G4	120	load	to	357.0	MW	dispatch				
5798	2558.3	2973.8	L: 147834	NIAG	345	345	149000	ROCH	345	345	1	865.0	1685.0	0.32053	0.30418	805.2	1583.4
			C: 95976	STONYCRK	230	131122	WTHRS230		230	1	42						
			Open	95976	STONYCRK	230	131122	WTHRS230		230	1			0.19501	0.08382	306.6	521.1
5800	2559.0	2974.3	*L: 130757	WATRC345	345	135249	ARMENMTN		345	1	-594.1	-927.0	-0.13010	-0.12058	-559.2	-867.8	
			C: 95976	STONYCRK	230	131122	WTHRS230		230	1	42						
			Open	95976	STONYCRK	230	131122	WTHRS230		230	1			-0.11362	0.08382	306.6	521.1
5803	2560.3	2975.3	*L: 135862	MUMFORD1	115	135866	NLEROYTA		115	1	-88.0	-173.0	-0.03320	-0.03007	-77.1	-154.1	
			C: 95976	STONYCRK	230	130770	SHLDN230		230	1	41						
			Open	95976	STONYCRK	230	130770	SHLDN230		230	1			0.03735	-0.08382	-291.0	-505.6
5804	2561.6	2976.2	L: 130753	FRASR345	345	130755	OAKDL345		345	1	-609.9	-1380.0	-0.30063	-0.30063	-506.9	-1277.0	
			C:SIN:250								1777						
			Open	100508	SANDB115	115	100509	SB	RCTOR	115	2			0.00002	0.00000	-0.0	-0.0
			Remove	unit	3	from	bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
5821	2567.8	2980.7	L: 147834	NIAG	345	345	149000	ROCH	345	345	1	861.9	1685.0	0.32053	0.30418	805.2	1586.3
			C: 95976	STONYCRK	230	130770	SHLDN230		230	1	41						
			Open	95976	STONYCRK	230	130770	SHLDN230		230	1			-0.19501	-0.08382	-291.0	-506.2
5829	2571.9	2983.7	*L: 147834	NIAG	345	345	149000	ROCH	345	345	1	860.6	1685.0	0.32053	0.30418	805.2	1587.5
			C:130767	STOLE230	230	130770	SHLDN230		230	1	291						
			Open	130767	STOLE230	230	130770	SHLDN230		230	1			0.19501	0.08382	284.3	499.9
5854	2581.9	2991.0	L: 130753	FRASR345	345	130755	OAKDL345		345	1	-570.2	-1380.0	-0.31366	-0.30063	-506.9	-1283.1	
			C:137453	N.SCOT99	345	147833	MARCY	T1	345	1	1091						
			Open	137453	N.SCOT99	345	147833	MARCY	T1	345	1			0.06988	-0.18632	-905.3	-1386.3
5855	2582.2	2991.2	L: 135861	MORTIMER	115	135873	SWDN-111		115	1	-73.7	-153.0	-0.03071	-0.02781	-62.3	-134.2	
			C:130764	MEYER230	230	134750	DAIRY230		230	1	286						
			Open	130764	MEYER230	230	134750	DAIRY230		230	1			0.03454	-0.08382	-329.2	-545.6
5872	2587.1	2994.8	L: 130765	OAKDL230	230	130772	SHRED230		230	1	-163.4	-440.0	-0.10693	-0.05429	-83.0	-223.5	
			C:130755	OAKDL345	345	130757	WATRC345		345	1	271						
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			0.26320	-0.20000	-305.2	-822.6
5876	2590.6	2997.4	L: 130765	OAKDL230	230	130838	OAKDL115		115	1	163.0	440.0	0.10693	0.05429	82.7	223.3	
			C:130755	OAKDL345	345	130757	WATRC345		345	1	271						
			Open	130755	OAKDL345	345	130757	WATRC345		345	1			-0.26320	-0.20000	-305.2	-823.3
5880	2595.0	3000.6	L: 130753	FRASR345	345	130755	OAKDL345		345	1	-568.4	-1380.0	-0.31274	-0.30063	-506.9	-1287.1	

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5883	2595.5	3001.0	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-73.3	-153.0	-0.03071	-0.02781	-62.3	-134.5
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458					
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1			-0.03454	0.08382	317.3	534.9
5886	2595.7	3001.1	*L: 130753 FRASR345	345	130755 OAKDL345	345	1	-599.6	-1380.0	-0.30063	-0.30063	-506.9	-1287.3
			C:GEN:SEABROOK					1672					
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
5888	2596.4	3001.6	L: 130767 STOLE230	230	130770 SHLDN230	230	1	322.2	540.0	0.08388	0.08382	284.3	502.0
			C:SPS:MARCY_AT1_AT2					1696					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			0.02479	0.00121	888.3	891.4
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			0.02479	0.00105	774.3	777.0
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.00113	-150.9	-153.8
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.00244	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
5892	2598.6	3003.2	*L: 130767 STOLE230	230	130770 SHLDN230	230	1	305.8	540.0	0.09012	0.08382	284.3	502.1
			C:135272-135289					1880					
			Open 135289 NILE115	115	147949 WELLSVLE	115	1			0.30853	0.02041	69.4	122.5
			Open 135289 NILE115	115	135360 NILEXFR	34.5	1			-0.00497	-0.00115	4.1	1.1
			Open 135272 DUGN-157	115	135289 NILE115	115	1			0.04870	0.00000	1.5	1.5
5905	2607.6	3009.7	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.9	-153.0	-0.03071	-0.02781	-62.3	-134.9
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42					
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1			-0.03454	0.08382	306.6	525.2
5919	2610.5	3011.9	L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.4	-153.0	-0.03087	-0.02781	-62.3	-134.9
			C:135856 EBAT-119	115	135859 LAPPINS1	115	1	754					
			Open 135856 EBAT-119	115	135859 LAPPINS1	115	1			-0.10350	0.02957	97.3	174.5
5928	2613.1	3013.8	L: 135851 SHEL-113	115	135874 SWDN-113	115	1	97.5	180.0	0.03156	0.02450	95.1	159.2
			C:130754 KINTI345	345	147834 NIAG 345	345	1	269					
			Open 130754 KINTI345	345	147834 NIAG 345	345	1			-0.03400	-0.20746	-71.0	-613.1
5948	2620.0	3018.8	*L: 135861 MORTIMER	115	135873 SWDN-111	115	1	-72.1	-153.0	-0.03087	-0.02781	-62.3	-135.2
			C:135859 LAPPINS1	115	135866 NLEROYTA	115	1	761					
			Open 135859 LAPPINS1	115	135866 NLEROYTA	115	1			-0.10350	0.02957	94.5	171.9
6025	2636.3	3030.8	L: 135853 BATAVIA1	115	135871 SENECA	115	1	123.7	239.0	0.04373	0.02899	84.7	161.1
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317					
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1			0.04847	0.30418	805.2	1607.1
6055	2641.3	3034.4	L: 130762 GARDV230	230	130767 STOLE230	230	1	260.1	478.0	0.08249	0.05668	118.8	268.5
			C:130766 ROBIN230	230	147841 NIAGAR2E	230	1	290					
			Open 130766 ROBIN230	230	147841 NIAGAR2E	230	1			-0.47496	-0.05434	-297.5	-441.0
6203	2650.7	3041.3	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	536.8	746.0	0.07893	0.04882	455.1	584.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71					
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22573	-0.13340	-361.7	-715.3
7333	2657.8	3046.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1101.0	1724.0	0.23442	0.17376	806.2	1268.1
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091					
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32557	-0.18632	-905.3	-1400.5
7454	2660.3	3048.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-455.1	-585.0	-0.04882			
			Base Case										
7470	2661.2	3048.9	L: 146758 CHESTER	138	146773 SGRLF138	138	1	178.7	317.0	0.05196	0.02869	115.6	192.0
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71					

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			C:130751 CNDGUA_T	230	130764 MEYER230	230	1	263						
			Open 130751 CNDGUA_T	230	130764 MEYER230	230	1		0.45292	-0.06068	-204.5	-366.6		
7624	2671.2	3056.2	L: 135861 MORTIMER	115	135874 SWDN-113	115	1		-67.6	-153.0	-0.03196	-0.02628	-54.9	-125.1
			C:135861 MORTIMER	115	135873 SWDN-111	115	1	765						
			Open 135861 MORTIMER	115	135873 SWDN-111	115	1		0.20402	-0.02781	-62.3	-136.6		
7704	2696.3	3074.6	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1242.8	-1725.0	-0.17882	-0.13587	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1	184						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1		0.31034	-0.13842	-974.5	-1347.7		
7718	2701.7	3078.5	L: 130848 S.OWE115	115	131850 CNYOG115	115	1		26.2	-143.0	-0.06264	-0.03702	-5.1	-105.2
			C:BUS:WATERCURE_230					1733						
			Open 95646 DEANWIND	230	130768 WATRC230	230	1		0.22743	-0.05429	-48.4	-195.1		
			Open 130757 WATRC345	345	130768 WATRC230	230	1		0.16705	-0.07942	254.0	39.5		
			Open 130763 HILSD230	230	130768 WATRC230	230	1		-0.11384	0.00000	0.4	0.4		
7719	2701.8	3078.5	L: 130807 GOUDY115	115	130848 S.OWE115	115	1		10.0	-143.0	-0.05662	-0.03702	39.9	-60.1
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1		0.09799	-0.20000	-305.2	-845.6		
7810	2740.0	3106.5	L: 130762 GARDV230	230	130767 STOLE230	230	1		259.5	478.0	0.07975	0.05668	118.8	274.1
			C:130766 ROBIN230	230	130767 STOLE230	230	1	289						
			Open 130766 ROBIN230	230	130767 STOLE230	230	1		0.84990	0.02714	165.5	239.9		
7811	2740.2	3106.6	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-271.1	-478.0	-0.07550	-0.06068	-204.5	-370.8
			C:SER:HCWC/NWES					1707						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1		0.00811	-0.03439	57.1	-37.1		
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.12065	-0.12058	-559.2	-889.6		
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		-0.00914	0.00000	-44.7	-44.7		
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
7815	2741.8	3107.8	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1		-271.8	-478.0	-0.07519	-0.06068	-204.5	-370.9
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1		0.12039	-0.12058	-559.2	-889.8		
7828	2745.7	3110.6	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-72.0	-558.0	-0.17699	-0.12454	-26.7	-368.7
			C:147834 NIAG 345	345	157051 BECK B	345	1	1477						
			Open 147834 NIAG 345	345	157051 BECK B	345	1		0.21073	-0.24888	-215.1	-898.5		
7829	2745.8	3110.7	L: 147842 NIAGAR2W	230	157063 BCK2PA27	230	1		-72.0	-558.0	-0.17699	-0.12454	-26.7	-368.7
			C:147834 NIAG 345	345	157050 BECK A	345	1	1476						
			Open 147834 NIAG 345	345	157050 BECK A	345	1		0.21073	-0.24888	-215.0	-898.4		
7838	2747.7	3112.1	L: 131018 LOUNS115	115	131850 CNYOG115	115	1		20.1	143.0	0.04473	0.03702	7.3	109.0
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37						
			Open 95646 DEANWIND	230	130772 SHRED230	230	1		0.14201	0.05429	90.2	239.4		
7850	2752.1	3115.3	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		595.1	927.0	0.12058	0.12058	528.9	860.8
			C:SIN:250					1777						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0		
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW	dispatch								
7864	2754.9	3117.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		594.8	927.0	0.12058	0.12058	528.9	861.1
			C:GEN:SEAB&OMS					1674						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2		0.00000	0.00000	-0.0	-0.0		
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch								
7865	2754.9	3117.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		594.8	927.0	0.12058	0.12058	528.9	861.1
			C:GEN:SEABROOK					1672						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW	dispatch								

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7969	2771.3	3129.3	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	19.0	143.0	0.04473	-0.14201	-0.05429	-83.0	-233.4
			C:SER:OAKDALE_WATRC230				1693							
			Open 130765 OAKDL230	230	130772 SHRED230	230	1				-0.14201	-0.05429	-83.0	-233.5
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				-0.10136	0.00000	0.4	0.4
7981	2771.5	3129.5	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-975.7	-1428.0	-0.16321				
			Base Case											
7984	2771.6	3129.6	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	19.0	143.0	0.04473		0.03702	7.3	109.9
			C:130765 OAKDL230	230	130838 OAKDL115	115	1	288						
			Open 130765 OAKDL230	230	130838 OAKDL115	115	1				0.14201	0.05429	82.7	233.1
7992	2772.2	3130.0	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	566.3	927.0	0.13010	0.12058	528.9	863.2	
			C:130764 MEYER230	230	134750 DAIRY230	230	1	286						
			Open 130764 MEYER230	230	134750 DAIRY230	230	1				-0.11362	-0.08382	-329.2	-561.5
8026	2774.6	3131.7	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	284.2	478.0	0.06986	0.06068	259.9	428.2	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.03019	0.30418	805.2	1649.2
8030	2774.8	3131.9	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-270.0	-478.0	-0.07495	-0.06068	-204.5	-372.9	
			C:SER:HC-WC_30&W-F_171				1701							
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.04656	-0.00341	-21.4	-30.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.11969	-0.12058	-559.2	-893.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00937	0.00000	-44.7	-44.7
			Open 95593 CHERYFLT	345	95594 CHERYWIND	34.5	1	NA						
8110	2779.5	3135.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	327.4	478.0	0.05418	0.06068	259.9	428.5	
			C:BUS:WATERCURE_345				1732							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.04950	-0.12058	-559.2	-894.4
			Open 130757 WATRC345	345	130768 WATRC230	230	1				0.15696	-0.07942	254.0	33.3
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.04118	0.00000	0.0	0.0
8224	2782.5	3137.5	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	565.0	927.0	0.13010	0.12058	528.9	864.4	
			C:131122 WTHRS230	230	134750 DAIRY230	230	1	458						
			Open 131122 WTHRS230	230	134750 DAIRY230	230	1				0.11362	0.08382	317.3	550.5
9394	2790.3	3143.2	L: 130751 CNDGUA_T	230	130764 MEYER230	230	1	-268.2	-478.0	-0.07519	-0.06068	-204.5	-373.8	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.12039	0.12058	528.9	865.4
9432	2791.9	3144.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	563.8	927.0	0.13010	0.12058	528.9	865.6	
			C: 95976 STONYCRK	230	131122 WTHRS230	230	1	42						
			Open 95976 STONYCRK	230	131122 WTHRS230	230	1				0.11362	0.08382	306.6	540.6
9455	2793.1	3145.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1150.5	-1792.0	-0.22968	-0.18632	-905.3	-1425.7	
			C:BUS:N.S._77				1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				-0.09423	-0.04054	-100.5	-213.8
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.02076	-0.00153	264.2	259.9
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.28297	0.17376	806.2	1291.6
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.06107	-0.03314	-6.3	-98.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.12967	0.00000	-250.0	-250.0
9484	2795.4	3146.9	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-18.0	-143.0	-0.04473	-0.03702	-5.1	-108.6	
			C: 95646 DEANWIND	230	130772 SHRED230	230	1	37						
			Open 95646 DEANWIND	230	130772 SHRED230	230	1				-0.14201	0.05429	90.2	241.9
9493	2795.8	3147.2	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	589.9	927.0	0.12058	0.12058	528.9	866.0	

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9574	2813.8	3160.4	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	-30.6	143.0	0.06168	0.03702	7.3	111.5
			C:130763 HILSD230	230	130768	WATRC230	230	1						
			Open 130763 HILSD230	230	130768	WATRC230	230	1			0.18444	0.13370	-205.2	171.0
9587	2818.1	3163.5	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:130765 OAKDL230	230	130772	SHRED230	230	1						
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14201	-0.05429	-83.0	-236.0
9589	2819.0	3164.2	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:SER:OAKDALE_WATRC230											1693
			Open 130765 OAKDL230	230	130772	SHRED230	230	1			0.14201	-0.05429	-83.0	-236.1
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			0.10136	0.00000	0.4	0.4
9590	2819.3	3164.4	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-16.9	-143.0	-0.04473	-0.03702	-5.1	-109.5
			C:130765 OAKDL230	230	130838	OAKDL115	115	1						288
			Open 130765 OAKDL230	230	130838	OAKDL115	115	1			-0.14201	0.05429	82.7	235.7
9592	2819.7	3164.7	L: Interface	1	DYSINGER	EAS			2340.1	4208.0	0.66244			
			Base Case											
9598	2821.3	3165.8	L: 135861 MORTIMER	115	135874	SWDN-113	115	1	-57.5	-153.0	-0.03385	-0.02628	-54.9	-129.1
			C:130754 KINTI345	345	147834	NIAG 345	345	1						269
			Open 130754 KINTI345	345	147834	NIAG 345	345	1			0.03647	-0.20746	-71.0	-656.3
9613	2824.0	3167.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	288.9	478.0	0.06698	0.06068	259.9	431.2
			C:130774 BATH 115	115	131347	HOWARD	115	1						296
			Open 130774 BATH 115	115	131347	HOWARD	115	1			-0.28809	-0.02188	-100.6	-162.4
9629	2827.9	3170.7	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	257.3	478.0	0.07806	0.06068	259.9	431.4
			C:LKWANA-OXBW											1751
			Open 417 OXBOW	230	3070	LACKAWNA	230	1			-0.12786	-0.13595	20.4	-364.1
9631	2828.5	3171.1	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	7.3	112.0	0.03702			
			Base Case											
9640	2834.4	3175.4	L: 130753 FRASR345	345	137200	EDIC	345	1	-861.5	-1380.0	-0.18292	-0.08706	-699.9	-946.6
			C:130753 FRASR345	345	130755	OAKDL345	345	1						265
			Open 130753 FRASR345	345	130755	OAKDL345	345	1			0.31887	-0.30063	-506.9	-1359.0
9688	2848.4	3185.7	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	32.7	-143.0	-0.06168	-0.03702	-5.1	-110.6
			C:130763 HILSD230	230	130768	WATRC230	230	1						284
			Open 130763 HILSD230	230	130768	WATRC230	230	1			-0.18444	0.13370	-205.2	175.6
9800	2864.9	3197.7	*L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	286.1	478.0	0.06698	0.06068	259.9	433.7
			C:131342 BENET115	115	131347	HOWARD	115	1						469
			Open 131342 BENET115	115	131347	HOWARD	115	1			0.28809	0.02188	91.1	153.8
9846	2871.3	3202.4	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.8	-927.0	-0.12058	-0.12058	-514.6	-860.8
			C:SIN:250											1777
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW								dispatch
9871	2874.1	3204.5	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.4	-927.0	-0.12058	-0.12058	-514.6	-861.1
			C:GEN:SEAB&OMS											1674
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW								dispatch
9872	2874.1	3204.5	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-580.4	-927.0	-0.12058	-0.12058	-514.6	-861.1
			C:GEN:SEABROOK											1672
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW								dispatch
9878	2874.8	3204.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-940.4	-1331.0	-0.13587			
			Base Case											
9932	2880.2	3208.9	L: 131018 LOUNSD230	115	131850	CNYOG115	115	1	14.2	143.0	0.04473	0.03702	7.3	113.9
			C: 95646 DEANWIND	230	130768	WATRC230	230	1						36

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11187	2893.0	3218.2	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-550.6	-927.0	-0.13010	-0.12058	-514.6	-863.4
			C:131122 WTHRS230	230	134750	DAIRY230		230	1	458					
			Open 131122 WTHRS230	230	134750	DAIRY230		230	1			-0.11362	0.08382	317.3	559.8
11667	2902.4	3225.1	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-549.4	-927.0	-0.13010	-0.12058	-514.6	-864.5
			C: 95976 STONYCRK	230	131122	WTHRS230		230	1	42					
			Open 95976 STONYCRK	230	131122	WTHRS230		230	1			-0.11362	0.08382	306.6	549.9
11954	2904.0	3226.3	L: 136150 CLAY	345	149001	PANNELL3		345	2	-246.1	-1033.0	-0.27098			
			Base Case												
13086	2910.6	3231.1	L: 95646 DEANWIND	230	130768	WATRC230		230	1	-128.8	-440.0	-0.10693	-0.05429	-48.4	-206.5
			C:130755 OAKDL345	345	130757	WATRC345		345	1	271					
			Open 130755 OAKDL345	345	130757	WATRC345		345	1			0.26320	-0.20000	-305.2	-887.3
13164	2915.0	3234.3	L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-575.5	-927.0	-0.12058	-0.12058	-514.6	-866.0
			C:GEN:MLS3&OMS							1673					
			Open 100508 SANDB115	115	100509	SB	RCTOR	115	2			-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3		24.0	1276.0	MW	dispatch							
13165	2915.0	3234.3	*L: 95593 CHERYFLT	345	200769	HOMER	CY	345	1	-575.5	-927.0	-0.12058	-0.12058	-514.6	-866.0
			C:GEN:MILLST 3							1671					
			Remove unit# 3 from bus 103563 MILL#3		24.0	1276.0	MW	dispatch							
13179	2916.2	3235.2	L: 136150 CLAY	345	149001	PANNELL3		345	1	-245.3	-1033.0	-0.27010			
			Base Case												
13281	2927.9	3243.7	L: 130848 S.OWE115	115	131850	CNYOG115		115	1	-12.0	-143.0	-0.04473	-0.03702	-5.1	-113.5
			C: 95646 DEANWIND	230	130768	WATRC230		230	1	36					
			Open 95646 DEANWIND	230	130768	WATRC230		230	1			0.14201	-0.05429	-48.4	-207.4
14771	2972.1	3276.0	L: 130750 COOPC345	345	130753	FRASR345		345	1	-1012.2	-1703.0	-0.23242	-0.21741	-915.5	-1561.6
			C:BUS:N.S._99							1715					
			Open 137453 N.SCOT99	345	147831	GILB	345	345	1			0.12444	-0.03437	-356.7	-458.9
			Open 137453 N.SCOT99	345	147833	MARCY	T1	345	1			0.04696	-0.18632	-905.3	-1459.0
			Open 137453 N.SCOT99	345	137516	N.SCOT1		115	1			-0.00093	-0.00150	279.1	274.6
			Open 137451 LEEDS 3	345	137453	N.SCOT99		345	2			0.01088	-0.18165	-880.3	-1420.2
			Open 137452 N.SCOT77	345	137453	N.SCOT99		345	1			-0.00989	0.00000	2.1	2.1
15134	2991.5	3290.2	L: 135858 GOLAH115	115	135862	MUMFORD1		115	1	-57.2	-173.0	-0.03872	-0.03007	-54.2	-144.1
			C:130754 KINTI345	345	147834	NIAG	345	345	1	269					
			Open 130754 KINTI345	345	147834	NIAG	345	345	1			0.04172	-0.20746	-71.0	-691.6
15149	2997.2	3294.4	L: 147842 NIAGAR2W	230	157063	BCK2PA27		230	1	-26.7	-400.0	-0.12454			
			Base Case												

# VolneyEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3897  
 First violation - 687.2 MW.

Study transfer. From ON\_C\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3897 violations

Interface-1 Interface 3 VOLNEY EAST- Init.Flow= 2747.74 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	687.2	3434.9	L: 135872 SOUR-111 C:147834 NIAG 345 Open 147834 NIAG 345	115 135873 SWDN-111 345 149000 ROCH 345 345 149000 ROCH 345	115 1 345 1 345 1	137.7 159.0 0.03093	0.02174	102.0 117.0 805.2 947.4
2	839.2	3587.0	L: 130761 AVOCA230 C:130757 WATRC345 Open 130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN 345 135249 ARMENMTN	230 1 345 1 345 1	326.7 383.0 0.06710	0.05411	259.4 304.8 -559.2 -649.8
3	849.8	3597.6	L: 130761 AVOCA230 C:SER:HCWC/NWES Open 130836 N.WAV115 Open 95593 CHERYFLT Open 130757 WATRC345 Open 135248 ARMENMTN Open 95593 CHERYFLT Open 95593 CHERYFLT	230 131154 STONY RIDGE 115 200676 E.SAYRE 345 135249 ARMENMTN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 200769 HOMER CY 345 95594 CHERYWND	230 1 115 1 345 1 345 1 345 1 34.5 1	326.0 383.0 0.06712	0.05411	259.4 305.3 57.1 36.1 -559.2 -650.9 -44.7 -64.0
4	866.6	3614.4	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171 Open 135277 FALCONER Open 95593 CHERYFLT Open 130757 WATRC345 Open 135248 ARMENMTN Open 95593 CHERYFLT Open 95593 CHERYFLT	230 131154 STONY RIDGE 115 200579 WARREN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 200769 HOMER CY 345 95594 CHERYWND	230 1 115 1 345 1 345 1 345 1 34.5 1	324.9 383.0 0.06706	0.05411	259.4 306.3 -21.4 -16.7 -559.2 -652.7 -44.7 -64.4
5	874.4	3622.1	L: 130763 HILSD230 C:130757 WATRC345 Open 130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN 345 135249 ARMENMTN	230 1 345 1 345 1	-324.3 -383.0 -0.06710	-0.05411	-257.0 -304.3 559.2 652.6

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.11969	-0.10788	-559.2	-656.5
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1		NA					
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.00937	-0.02276	-44.7	-65.2
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1		NA					
8	901.8	3649.6	L: 135850 SOUR-114	115	135861	MORTIMER	115	1	123.7	153.0	0.03246		0.02288	86.5	107.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04629	0.20689	805.2	991.8
9	921.5	3669.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	323.0	383.0	0.06507		0.05411	259.4	309.2
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1							35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				0.12039	0.09103	528.9	612.8
10	936.4	3684.2	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-268.4	-317.0	-0.05191		-0.02861	-156.0	-182.7
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							69
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.10846	0.21481	1036.7	1237.8
11	936.4	3684.2	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-268.4	-317.0	-0.05191		-0.02861	-156.0	-182.7
			C:SIN:440												1783
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.10846	0.21481	1036.7	1237.8
12	957.7	3705.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-320.7	-383.0	-0.06507		-0.05411	-257.0	-308.8
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1							35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1				-0.12039	0.09103	528.9	616.1
13	958.5	3706.3	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	321.3	383.0	0.06436		0.05411	259.4	311.2
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1							1448
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.12039	-0.08511	-514.6	-596.1
14	995.2	3742.9	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-319.0	-383.0	-0.06436		-0.05411	-257.0	-310.9
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1							1448
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.12039	-0.08511	-514.6	-599.3
15	1080.4	3828.2	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	134.3	173.0	0.03585		0.02563	94.5	122.1
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							1317
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1				0.04943	0.20689	805.2	1028.7
16	1144.3	3892.0	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	326.9	383.0	0.04902		0.05411	259.4	321.3
			C:BUS:WATERCURE_345												1732
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.04950	-0.10788	-559.2	-682.7
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.15696	-0.06648	254.0	177.9
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.04118	0.00000	0.0	0.0
17	1192.4	3940.1	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-324.6	-383.0	-0.04902		-0.05411	-257.0	-321.5
			C:BUS:WATERCURE_345												1732
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				0.04950	-0.10788	-559.2	-687.9
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.15696	-0.06648	254.0	174.7
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.04118	0.00000	0.0	0.0
18	1212.3	3960.0	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1376.6	-1724.0	-0.28653		-0.18441	-886.3	-1109.8
			C:137451 LEEDS 3	345	137453	N.SCOT99	345	2							1084
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2				0.55704	-0.18334	-880.3	-1102.6
19	1228.3	3976.1	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1372.9	-1724.0	-0.28583		-0.18334	-880.3	-1105.5
			C:137451 LEEDS 3	345	137452	N.SCOT77	345	1							1083
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1				0.55580	-0.18441	-886.3	-1112.8
20	1323.3	4071.1	L: 135859 LAPPINS1	115	135866	NLEROYTA	115	1	131.1	173.0	0.03163		0.02563	94.5	128.4
			C:130754 KINTI345	345	149000	ROCH 345	345	1							270
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.04102	0.14622	884.1	1087.7



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				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
26	1563.7	4311.5	L:	137532 RTRDM1	115	137730 ROTRDM.2	230	2											
				C:137532 RTRDM1	115	137730 ROTRDM.2	230	1	1177										
				Open 137532 RTRDM1	115	137730 ROTRDM.2	230	1											
27	1570.4	4318.2	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
28	1570.9	4318.6	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
29	1572.2	4320.0	L:	130764 MEYER230	230	134750 DAIRY230	230	1											
				Base Case															
30	1590.9	4338.7	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
31	1609.6	4357.3	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
32	1613.1	4360.8	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
33	1624.5	4372.2	*L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
34	1634.1	4381.8	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
36	1648.8	4396.5	L:	135861 MORTIMER	115	135873 SWDN-111	115	1											
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
37	1663.8	4411.5	*L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
40	1713.1	4460.9	L:	146758 CHESTER	138	146773 SGRLF138	138	1											
				C:SIN:440					1783										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
41	1713.1	4460.9	L:	146758 CHESTER	138	146773 SGRLF138	138	1											
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
45	1790.7	4538.5	L:	130750 COOPC345	345	130753 FRASR345	345	1											
				C:130750 COOPC345	345	147833 MARCY T1	345	1	261										
				Open 130750 COOPC345	345	147833 MARCY T1	345	1											
47	1814.8	4562.5	L:	130757 WATRC345	345	135249 ARMENMTN	345	1											
				Base Case															
48	1820.7	4568.4	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1											
				C:130754 NIAG 345	345	149000 ROCH 345	345	1	1317										

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			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				0.14032	0.21481	1036.7	1432.8
58	1874.3	4622.0	L: 130750 COOPC345	345	146754	MDTN TAP	345	1	1255.1	1793.0	0.28701		0.18138	817.4	1157.3
			C:125001 ROCK TAV	345	130750	COOPC345	345	2							
			Open 125001 ROCK TAV	345	130750	COOPC345	345	2							
62	1893.0	4640.7	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-219.0	-317.0	-0.05175		-0.02861	-156.0	-210.1
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1							
85	1994.7	4742.4	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-389.1	-540.0	-0.07567		-0.06412	-329.2	-457.1
			C:130757 WATRC345	345	135249	ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1							
89	1997.1	4744.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-387.6	-540.0	-0.07631		-0.06412	-329.2	-457.2
			C:SER:HCWC/NWES												
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						57.1	7.8
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-559.2	-774.7
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						-44.7	-90.1
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
99	2012.9	4760.6	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-387.8	-540.0	-0.07562		-0.06412	-329.2	-458.3
			C:SER:HC-WC_30&W-F_171												
			Open 135277 FALCONER	115	200579	WARREN	115	1						-21.4	-10.5
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-559.2	-776.4
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						-44.7	-90.5
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
101	2017.0	4764.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	317.3	430.0	0.05587				
			Base Case												
102	2021.4	4769.1	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-382.6	-540.0	-0.07786		-0.06412	-329.2	-458.8
			C:147834 NIAG 345	345	149000	ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000	ROCH 345	345	1						805.2	1223.4
112	2068.5	4816.3	L: 130750 COOPC345	345	147833	MARCY T1	345	1	-950.7	-1345.0	-0.19060		-0.13420	-708.1	-985.7
			C:130750 COOPC345	345	130753	FRASR345	345	1							
			Open 130750 COOPC345	345	130753	FRASR345	345	1						-915.5	-1355.6
120	2087.3	4835.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-385.8	-540.0	-0.07387		-0.06412	-329.2	-463.0
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						528.9	718.9
128	2109.1	4856.8	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1219.4	-1724.0	-0.23927		-0.18441	-886.3	-1275.2
			C:137451 LEEDS 3	345	147831	GILB 345	345	1							
			Open 137451 LEEDS 3	345	147831	GILB 345	345	1						-975.7	-1314.6
141	2126.4	4874.1	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-384.3	-540.0	-0.07324		-0.06412	-329.2	-465.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						-514.6	-695.5
150	2136.5	4884.2	L: 125001 ROCK TAV	345	130750	COOPC345	345	2	-1197.0	-1793.0	-0.27895		-0.16561	-686.3	-1040.1
			C:130750 COOPC345	345	146754	MDTN TAP	345	1							
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1						817.4	1204.9
158	2142.7	4888.5	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	2	1212.6	1724.0	0.23927		0.18224	886.3	1275.2

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			Open 130753 FRASR345	345	137200	EDIC	345	1				0.27753	-0.09555	-699.9	-909.6
214	2207.7	4955.4	L: 131018 LOUNSI115	115	131850	CNYOG115	115	1	37.2	143.0	0.04793		0.03084	7.3	75.4
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1							
218	2212.7	4960.5	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	306.6	430.0	0.05576				
			Base Case												
264	2238.2	4986.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1	-378.4	-540.0	-0.07219				
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1							
285	2247.7	4995.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	327.2	478.0	0.06710				
			C:130757 WATRC345	345	135249	ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1							
302	2252.2	4999.9	L: 130848 S.OWE115	115	131850	CNYOG115	115	1	-35.1	-143.0	-0.04793				
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1							
314	2257.8	5005.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	326.5	478.0	0.06712				
			C:SER:HCWC/NWES												
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1							
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
332	2263.6	5011.3	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1143.5	-1724.0	-0.25643				
			C:BUS:N.S._77												
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452	N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1							
388	2272.7	5020.4	L: 125001 ROCK TAV	345	130750	COOPC345	345	2	-1165.4	-1793.0	-0.27614				
			C:SER:CMT34&MTR34												
			Open 130750 COOPC345	345	146754	MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1							
425	2275.8	5023.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1	325.4	478.0	0.06706				
			C:SER:HC-WC_30&W-F_171												
			Open 135277 FALCONER	115	200579	WARREN	115	1							
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
1182	2284.8	5032.6	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	259.4	383.0	0.05411				
			Base Case												
2123	2323.4	5071.2	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1	-1206.1	-1792.0	-0.25216				
			C:SER:HCWC/NWES												

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			Open 137453 N.SCOT99	345	147831	GILB 345	345	1		0.62647	-0.03053	-356.7	-428.2						
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1		0.15668	-0.19008	-905.3	-1350.5						
			Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1		0.02957	-0.00162	279.1	275.3						
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2		0.06746	-0.18334	-880.3	-1309.7						
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1		0.09502	0.00000	2.1	2.1						
3601	2368.0	5115.7	L: 130757 WATRC345	345	135249	ARMENMTN	345	1		-671.4	-927.0	-0.10793	-0.10788	-559.2	-814.7				
			C:SPS:MARCY_AT1_AT2					1696											
			Open 147827 MARCY765	765	147833	MARCY T1	345	1						-0.02337	0.00122	888.3	891.1		
			Open 147827 MARCY765	765	147833	MARCY T1	345	2						-0.02337	0.00106	774.3	776.8		
			Open 147827 MARCY765	765	147828	MASS 765	765	1										NA	
			Open 147828 MASS 765	765	180819	CHA-NY	765	1										NA	
			Open 156 MCY765SW	765	147827	MARCY765	765	1										NA	
			Open 147838 MASS230B	230	147839	MOSES E	230	1						0.00000	-0.00114	-150.9	-153.6		
			Open 147828 MASS 765	765	147838	MASS230B	230	1										NA	
			Open 147837 MASS230A	230	147839	MOSES E	230	1						0.05390	0.00000	-1360.8	-1360.8		
			Open 147828 MASS 765	765	147837	MASS230A	230	1										NA	
3608	2373.8	5121.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		323.5	478.0	0.06507		0.05411	259.9	388.3			
			C: 95593 CHERYFLT	345	135249	ARMENMTN	345	1											35
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1						0.12039	0.09103	528.9	745.0		
3609	2374.4	5122.1	L: 130794 DELHI115	115	130804	DEL T115	115	1		27.8	164.0	0.05737		0.03109	-19.3	54.5			
			C:130753 FRASR345	345	130755	OAKDL345	345	1											265
			Open 130753 FRASR345	345	130755	OAKDL345	345	1						-0.09294	-0.28274	-506.9	-1178.2		
3643	2396.5	5144.2	L: 147834 NIAG 345	345	149000	ROCH 345	345	1		805.2	1301.0	0.20689							
			Base Case																
3649	2407.5	5155.3	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-389.2	-540.0	-0.06263		-0.06412	-329.2	-483.6			
			C:BUS:WATERCURE_345					1732											
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						0.05592	-0.10788	-559.2	-818.9		
			Open 130757 WATRC345	345	130768	WATRC230	230	1						-0.11323	-0.06648	254.0	94.0		
			Open 130755 OAKDL345	345	130757	WATRC345	345	1						0.04915	0.00000	0.0	0.0		
3652	2411.6	5159.3	L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1		-886.3	-1331.0	-0.18441							
			Base Case																
3653	2413.7	5161.5	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		375.7	540.0	0.06805		0.05587	317.3	452.2			
			C:SER:HCWC/NWES					1707											
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1						-0.02850	-0.02468	57.1	-2.5		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1											NA
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.10798	-0.10788	-559.2	-819.6		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1											NA
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						0.00736	-0.02276	-44.7	-99.6		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1											NA
3654	2415.0	5162.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		377.2	540.0	0.06742		0.05587	317.3	452.2			
			C:130757 WATRC345	345	135249	ARMENMTN	345	1											278
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.10706	-0.10788	-559.2	-819.7		
3666	2427.0	5174.7	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		321.8	478.0	0.06436		0.05411	259.9	391.2			
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1											1448
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						-0.12039	-0.08511	-514.6	-721.1		
3669	2430.3	5178.0	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1182.2	-1792.0	-0.25090		-0.19008	-905.3	-1367.2			
			C:137453 N.SCOT99	345	137453	N.SCOT99	345	1											1000

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			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1		0.00752	-0.02276	-44.7	-100.1		
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3675	2442.3	5190.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1		-663.4	-927.0	-0.10793	-0.10788	-559.2	-822.7
			C:HQ-NY-765-New				1877							
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.02337	0.00122	888.3	891.2		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.02337	0.00106	774.3	776.9		
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1		0.00000	-0.00114	-150.9	-153.7		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1		0.05390	0.00000	-153.0	-153.0		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch							
3681	2458.3	5206.1	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-880.3	-1331.0	-0.18334			
			Base Case											
3684	2478.0	5225.7	L: 130794 DELHI115	115	130838 OAKDL115	115	1		-79.0	-179.0	-0.04036	-0.02066	-43.7	-94.9
			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1		0.06968	-0.28274	-506.9	-1207.5		
3686	2483.5	5231.3	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		528.9	755.0	0.09103			
			Base Case											
3687	2485.7	5233.5	L: 130750 COOPC345	345	130753 FRASR345	345	1		-985.3	-1703.0	-0.28873	-0.21279	-915.5	-1444.4
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1		-0.39710	0.19123	175.8	651.2		
3690	2495.1	5242.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1124.6	1724.0	0.24024	0.17706	806.2	1248.0
			C:SIN:170				1771							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.33240	-0.19008	-905.3	-1379.5		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.19128	0.00000	91.0	91.0		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00025	-0.00017	40.8	40.4		
3691	2495.1	5242.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1		1124.6	1724.0	0.24024	0.17706	806.2	1248.0
			C:SIN:180				1772							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.33240	-0.19008	-905.3	-1379.5		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.19130	0.00000	91.0	91.0		
			Open 137235 PORTER 1	115	147905 ILION	115	1		0.00017	-0.00010	46.2	45.9		
3702	2530.8	5278.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.06561	0.05587	317.3	458.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10706	0.09103	528.9	759.3		
3707	2533.7	5281.4	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1		-91.5	-173.0	-0.03217	-0.02606	-54.2	-120.2
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270						
			Open 130754 KINTI345	345	149000 ROCH 345	345	1		-0.04172	0.14633	894.1	1264.8		
3708	2535.0	5282.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		365.1	540.0	0.06561	0.05587	317.3	458.7

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			Open 149000 ROCH 345	345	149001 PANNELL3	345	1				0.79700	0.18842	450.3	936.1
3729	2579.2	5326.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	372.4	540.0	0.06498		0.05587	317.3	461.4
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10706	-0.08511	-514.6	-734.1
3731	2581.1	5328.8	L: 149000 ROCH 345	345	149001 PANNELL3	345	1	810.1	1685.0	0.33899		0.18842	450.3	936.7
			C:149000 ROCH 345	345	149001 PANNELL3	345	2							
			Open 149000 ROCH 345	345	149001 PANNELL3	345	2				0.79647	0.18904	451.6	939.6
3733	2589.4	5337.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	360.1	540.0	0.06949		0.05576	306.6	451.0
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.06637	0.20689	805.2	1340.9
3738	2598.7	5346.5	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	365.2	540.0	0.06725		0.05576	306.6	451.5
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579 WARREN	115	1				0.03156	0.00544	-21.4	-7.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10659	-0.10788	-559.2	-839.6
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00752	-0.02276	-44.7	-103.8
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1							
3740	2606.9	5354.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1078.4	-1703.0	-0.23962		-0.21279	-915.5	-1470.2
			C:137451 LEEDS 3	345	147831 GILB 345	345	1							
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.16693	-0.16071	-975.7	-1394.6
3741	2607.4	5355.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1101.0	1724.0	0.23894		0.17706	806.2	1267.9
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19008	-905.3	-1400.9
3745	2632.3	5380.1	L: 130787 CODNT115	115	130830 MONTR115	115	1	-19.3	-144.0	-0.04738		-0.03286	6.1	-80.4
			C:130755 OAKDL345	345	130757 WATRC345	345	1							
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.08324	-0.17436	-305.2	-764.2
3749	2645.8	5393.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-506.9	-1255.0	-0.28274				
			Base Case											
3751	2659.9	5407.6	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	536.8	746.0	0.07866		0.04871	455.1	584.7
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.22573	-0.13267	-361.7	-714.6
3756	2666.2	5413.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-455.1	-585.0	-0.04871				
			Base Case											
3757	2672.0	5419.8	L: 146758 CHESTER	138	146773 SGRLF138	138	1	178.7	317.0	0.05175		0.02861	115.6	192.1
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				-0.17442	-0.13267	-361.7	-716.2
3758	2675.7	5423.4	L: Interface 73 MarcySouthS					1623.6	2552.0	0.34699				
			Base Case											
3762	2681.6	5429.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-583.1	-1380.0	-0.29718		-0.28274	-506.9	-1265.1
			C:130750 COOPC345	345	147833 MARCY T1	345	1							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1				0.10759	-0.13420	-708.1	-1068.0
3763	2692.2	5439.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1242.8	-1725.0	-0.17910		-0.13608	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1							
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1				0.31034	-0.13863	-974.5	-1347.7
3764	2694.4	5442.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-367.1	-540.0	-0.06418		-0.06412	-329.2	-502.0
			C:130753 FRASR345	345	130755 OAKDL345	345	1							

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3766	2699.2	5446.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-585.4	-1380.0	-0.29439	-0.28274	-506.9	-1270.1
			C:BUS:N.S._77				1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1	-0.00036	-0.03889		-100.5	-205.5	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1	0.01971	-0.00164		264.2	259.8	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1	-0.07055	0.17706		806.2	1284.2	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1	-0.02581	-0.03318		-6.3	-95.8	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1	0.10798	0.00000		-250.0	-250.0	
3768	2707.1	5454.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1380.0	-0.29643	-0.28274	-506.9	-1272.3
			C:SIN:180				1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1	0.07202	-0.19008		-905.3	-1419.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1	-0.06008	0.00000		91.0	91.0	
			Open 137235 PORTER 1	115	147905 ILION	115	1	0.00060	-0.00010		46.2	45.9	
3769	2707.1	5454.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-577.5	-1380.0	-0.29643	-0.28274	-506.9	-1272.3
			C:SIN:170				1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1	0.07202	-0.19008		-905.3	-1419.8	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1	-0.06015	0.00000		91.0	91.0	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1	0.00090	-0.00017		40.8	40.3	
3770	2711.7	5459.4	*L: 130764 MEYER230	230	134750 DAIRY230	230	1	-366.0	-540.0	-0.06418	-0.06412	-329.2	-503.1
			C:HQ-NY-765-New				1877						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	-0.02479	0.00122		888.3	891.6	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	-0.02479	0.00106		774.3	777.1	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.00000	-0.00114		-150.9	-154.0	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.00244	0.00000		-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
3773	2712.9	5460.7	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	366.6	540.0	0.06393	0.05587	317.3	468.9
			C:130754 KINTI345	345	149000 ROCH 345	345	1	270					
			Open 130754 KINTI345	345	149000 ROCH 345	345	1	0.05509	0.14633		894.1	1291.1	
3776	2721.4	5469.2	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1087.4	1724.0	0.23392	0.17706	806.2	1288.1
			C:BUS:N.S._99				1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1	-0.18542	-0.03053		-356.7	-439.8	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1	-0.38137	-0.19008		-905.3	-1422.5	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1	-0.09594	-0.00162		279.1	274.7	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2	0.11697	-0.18334		-880.3	-1379.2	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1	-0.23696	0.00000		2.1	2.1	
3777	2723.7	5471.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-609.9	-1380.0	-0.28274	-0.28274	-506.9	-1277.0
			C:STN:250				1777						

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			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1				0.06988	-0.19008	-905.3	-1425.3	
3782	2748.4	5496.1	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	361.7	540.0	0.06487		0.05576	306.6	459.9	
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1								
3783	2750.4	5498.1	L: 130753 FRASR345	345	130755	OAKDL345	345	1	-568.4	-1380.0	-0.29507		-0.28274	-506.9	-1284.6	
			C:SIN:150												1769	
			Open 137200 EDIC	345	137452	N.SCOT77	345	1					-0.06966	0.17706	806.2	1293.2
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1					-0.05912	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905	ILION	115	1					0.00060	-0.00010	46.2	45.9
3784	2750.4	5498.2	L: 130753 FRASR345	345	130755	OAKDL345	345	1	-568.4	-1380.0	-0.29507		-0.28274	-506.9	-1284.6	
			C:SIN:160												1770	
			Open 137200 EDIC	345	137452	N.SCOT77	345	1					-0.06966	0.17706	806.2	1293.2
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1					-0.05920	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246	VALLEY	115	1					0.00090	-0.00017	40.8	40.3
3787	2753.1	5500.9	L: 130836 N.WAV115	115	131018	LOUNTS115	115	1	41.0	173.0	0.04793		0.03084	11.1	96.1	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							271	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1								
3790	2760.0	5507.8	*L: 130753 FRASR345	345	130755	OAKDL345	345	1	-599.6	-1380.0	-0.28274		-0.28274	-506.9	-1287.3	
			C:GEN:SEABROOK												1672	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW									dispatch	
3795	2780.8	5528.5	L: 130754 KINTI345	345	149000	ROCH 345	345	1	894.1	1301.0	0.14633					
			Base Case													
3797	2791.9	5539.7	L: 130753 FRASR345	345	137200	EDIC	345	1	-861.5	-1380.0	-0.18571		-0.09555	-699.9	-966.6	
			C:130753 FRASR345	345	130755	OAKDL345	345	1							265	
			Open 130753 FRASR345	345	130755	OAKDL345	345	1								
3798	2795.4	5543.1	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-625.4	-927.0	-0.10788		-0.10788	-559.2	-860.8	
			C:SIN:250												1777	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW									dispatch	
3801	2798.5	5546.2	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-625.1	-927.0	-0.10788		-0.10788	-559.2	-861.1	
			C:GEN:SEAB&OMS												1674	
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2					-0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW									dispatch	
3802	2798.5	5546.2	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-625.1	-927.0	-0.10788		-0.10788	-559.2	-861.1	
			C:GEN:SEABROOK												1672	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW									dispatch	
3805	2814.6	5562.3	L: 137451 LEEDS 3	345	147831	GILB 345	345	1	-975.7	-1428.0	-0.16071					
			Base Case													
3812	2825.0	5572.7	L: 95593 CHERYFLT	345	200769	HOMER CY	345	1	-514.6	-755.0	-0.08511					
			Base Case													
3814	2841.9	5589.7	L: 95646 DEANWIND	230	130772	SHRED230	230	1	170.5	440.0	0.09482		0.04893	90.2	229.2	
			C:130755 OAKDL345	345	130757	WATRC345	345	1							271	
			Open 130755 OAKDL345	345	130757	WATRC345	345	1								
3815	2844.2	5591.9	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-620.2	-927.0	-0.10788		-0.10788	-559.2	-866.0	
			C:GEN:MILLST 3												1671	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW									dispatch	
3816	2844.2	5591.9	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-620.2	-927.0	-0.10788		-0.10788	-559.2	-866.0	



# VolneyEast

			Open 130761 AVOCA230	230	131154	STONY RIDGE	230	1				0.45253	0.05411	259.4	414.3
3827	2868.8	5616.5	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-596.6	-927.0	-0.11516		-0.10788	-559.2	-868.7
			C:130764 MEYER230	230	134750	DAIRY230	230	1							
			Open 130764 MEYER230	230	134750	DAIRY230	230	1				0.11362	-0.06412	-329.2	-513.1
3829	2870.4	5618.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-940.4	-1331.0	-0.13608				
			Base Case												
3831	2879.5	5627.2	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2	-1219.8	-1725.0	-0.17544		-0.13608	-940.4	-1332.2
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1							
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1				0.30400	-0.12949	-919.1	-1292.0
3833	2885.1	5632.9	L: 95976 STONYCRK	230	131122	WTHRS230	230	1	355.9	540.0	0.06382		0.05576	306.6	467.5
			C:130754 KINTI345	345	149000	ROCH 345	345	1							
			Open 130754 KINTI345	345	149000	ROCH 345	345	1				0.05509	0.14633	894.1	1316.3
3837	2894.6	5642.4	L: 130764 MEYER230	230	131343	MEYER M4	34.5	1	236.1	336.0	0.03450		0.01001	119.8	148.8
			C:130763 HILSD230	230	131154	STONY RIDGE	230	1							
			Open 130763 HILSD230	230	131154	STONY RIDGE	230	1				-0.45253	-0.05411	-257.0	-413.6
3844	2904.1	5651.9	L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-595.3	-927.0	-0.11422		-0.10788	-559.2	-872.5
			C:131122 WTHRS230	230	134750	DAIRY230	230	1							
			Open 131122 WTHRS230	230	134750	DAIRY230	230	1				-0.11362	0.05587	317.3	479.6
3849	2915.1	5662.8	*L: 130757 WATRC345	345	135249	ARMENMTN	345	1	-594.1	-927.0	-0.11421		-0.10788	-559.2	-873.7
			C: 95976 STONYCRK	230	131122	WTHRS230	230	1							
			Open 95976 STONYCRK	230	131122	WTHRS230	230	1				-0.11362	0.05576	306.6	469.2
3853	2917.4	5665.2	L: 130765 OAKDL230	230	130772	SHRED230	230	1	-163.4	-440.0	-0.09482		-0.04893	-83.0	-225.8
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				0.26320	-0.17436	-305.2	-813.9
3856	2921.4	5669.1	L: 130765 OAKDL230	230	130838	OAKDL115	115	1	163.0	440.0	0.09482		0.04893	82.7	225.6
			C:130755 OAKDL345	345	130757	WATRC345	345	1							
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.26320	-0.17436	-305.2	-814.6
3859	2936.5	5684.3	L: 135862 MUMFORD1	115	135866	NLEROYTA	115	1	-80.1	-173.0	-0.03164		-0.02606	-77.1	-153.7
			C:130754 KINTI345	345	147834	NIAG 345	345	1							
			Open 130754 KINTI345	345	147834	NIAG 345	345	1				0.04172	-0.13366	-71.0	-463.4
3871	2963.7	5711.4	L: 137200 EDIC	345	137452	N.SCOT77	345	1	806.2	1331.0	0.17706				
			Base Case												
3877	2976.6	5724.4	L: 131018 LOUNSI15	115	131850	CNYOG115	115	1	10.8	143.0	0.04442		0.03084	7.3	99.1
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.05701	-0.10788	-559.2	-880.3
			Open 130757 WATRC345	345	130768	WATRC230	230	1				-0.11175	-0.06648	254.0	56.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.05532	0.00000	0.0	0.0
3888	2991.4	5739.2	L: 131122 WTHRS230	230	134750	DAIRY230	230	1	377.4	540.0	0.05437		0.05587	317.3	484.4
			C:BUS:WATERCURE_345												
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.05592	-0.10788	-559.2	-881.9
			Open 130757 WATRC345	345	130768	WATRC230	230	1				0.11323	-0.06648	254.0	55.1
			Open 130755 OAKDL345	345	130757	WATRC345	345	1				-0.04915	0.00000	0.0	0.0

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 22434  
 First violation - 166.5 MW.

Study transfer. From D\_EXPORT To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 22434 violations

Interface-1 Interface 4 MOSES SOUTH- Init.Flow= 2086.37 TDF= 0.9942

N	FCITC	IntFcel	L:	Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=		
				C: Contingency description	___Ncon	Flow	Rating	LODF	Init	Final	
1	166.5	2251.9	L:	147764 MOS17-20 13.8 147839 MOSES E	230 5	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SEAB&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
2	166.5	2251.9	L:	147764 MOS17-20 13.8 147839 MOSES E	230 5	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SEABROOK							
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
3	166.5	2251.9	L:	147767 MOS21-24 13.8 147840 MOSES W	230 6	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SEAB&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
4	166.5	2251.9	L:	147767 MOS21-24 13.8 147840 MOSES W	230 6	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SEABROOK							
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
5	166.5	2251.9	L:	147764 MOS17-20 13.8 147839 MOSES E	230 5	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:MILLST 3							
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
6	166.5	2251.9	L:	147764 MOS17-20 13.8 147839 MOSES E	230 5	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:MLS3&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
7	166.5	2251.9	L:	147767 MOS21-24 13.8 147840 MOSES W	230 6	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:MLS3&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
8	166.5	2251.9	L:	147767 MOS21-24 13.8 147840 MOSES W	230 6	216.4	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:MILLST 3							
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
9	166.7	2252.1	L:	147769 MOS25-28 13.8 147849 MOS 115	115 7	216.3	258.0	0.25000	0.25000	216.0	257.7
				C:GEN:SEABROOK							
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
10	166.7	2252.1	L:	147769 MOS25-28 13.8 147849 MOS 115	115 7	216.3	258.0	0.25000	0.25000	216.0	257.7
				C:GEN:SEAB&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 1 from bus 102869 SBRK G1	25.0 1318.0 MW	dispatch					
11	166.7	2252.1	L:	147764 MOS17-20 13.8 147839 MOSES E	230 5	216.3	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SALEM							
				Remove unit 1 from bus 36 SALEM-G1	22.0 1107.4 MW	dispatch					
12	166.7	2252.1	L:	147767 MOS21-24 13.8 147840 MOSES W	230 6	216.3	258.0	0.25000	0.25000	216.1	257.7
				C:GEN:SALEM							
				Remove unit 1 from bus 36 SALEM-G1	22.0 1107.4 MW	dispatch					
13	166.7	2252.1	L:	147769 MOS25-28 13.8 147849 MOS 115	115 7	216.3	258.0	0.25000	0.25000	216.0	257.7
				C:GEN:MLS3&OMS							
				Open 100508 SANDB115 115 100509 SB RCTOR	115 2			0.00000	0.00000	-0.0	-0.0
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
14	166.7	2252.1	L:	147769 MOS25-28 13.8 147849 MOS 115	115 7	216.3	258.0	0.25000	0.25000	216.0	257.7
				C:GEN:MILLST 3							
				Remove unit 3 from bus 103563 MILL#3	24.0 1276.0 MW	dispatch					
15	166.7	2252.1	L:	147773 MOS29-32 13.8 147849 MOS 115	115 8	216.3	258.0	0.25000	0.25000	216.0	257.7
				C:GEN:SEABROOK							
					1672						



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5166	167.9	2253.3	L: 147769 MOS25-28	13.8	147849	MOS	115	115	7	216.0	258.0	0.25000							
			Base Case																
6050	168.0	2253.4	L: 147773 MOS29-32	13.8	147849	MOS	115	115	8	216.0	258.0	0.25000							
			Base Case																
7421	246.3	2331.3	L: 147827 MARCY765	765	147833	MARCY	T1	345	1	1585.2	1756.0	0.69355	0.38904	888.3	984.1				This is a valid contingency.
			C:147827 MARCY765	765	147833	MARCY	T1	345	2	1310									Post-contingency loading on T1 is 1756 MW.
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			0.90007	0.33832	774.3	857.6				Per NYPA, SPS action will trip Marcy T1 only when
7422	598.6	2681.5	L: 147827 MARCY765	765	147833	MARCY	T1	345	2	1562.0	1971.0	0.68331	0.33832	774.3	976.8				T1 loading exceeds 1409 A at 765kV (1866 MVA).
			C:147827 MARCY765	765	147833	MARCY	T1	345	1	1309									
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1			0.88678	0.38904	888.3	1121.1				
7423	687.7	2770.1	L: 136778 LOWVILLE	115	136807	TAYLORVL		115	1	-111.2	-134.0	-0.03316	-0.02283	-73.7	-89.4				
			C:136761 BU+LY+MO	115	137221	BOONVL		115	1	967									
			Open 136761 BU+LY+MO	115	137221	BOONVL		115	1			-0.45295	0.02282	82.7	98.4				
7424	687.7	2770.1	L: 136778 LOWVILLE	115	136807	TAYLORVL		115	1	-111.2	-134.0	-0.03316	-0.02283	-73.7	-89.4				
			C:Lyons Falls Tap						1805										
			Open 136761 BU+LY+MO	115	137221	BOONVL		115	1			-0.45295	0.02282	82.7	98.4				
7425	722.7	2804.9	L: 147836 ADRON B2	230	147840	MOSES	W	230	1	-267.6	-440.0	-0.23857	-0.10035	-167.7	-240.2				
			C:SPS:MARCY_AT1_AT2						1696										
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1			-0.19002	0.38904	888.3	1169.4				
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			-0.19002	0.33832	774.3	1018.8				
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA									
			Open 147828 MASS 765	765	180819	CHA-NY		765	1	NA									
			Open 156 MCY765SW	765	147827	MARCY765		765	1	NA									
			Open 147838 MASS230B	230	147839	MOSES	E	230	1			0.00000	-0.36368	-150.9	-413.7				
			Open 147828 MASS 765	765	147838	MASS230B		230	1	NA									
			Open 147837 MASS230A	230	147839	MOSES	E	230	1			-0.15873	0.00000	-1360.8	-1360.8				
			Open 147828 MASS 765	765	147837	MASS230A		230	1	NA									
7426	722.8	2804.9	L: 147835 ADRON B1	230	147840	MOSES	W	230	1	-267.6	-440.0	-0.23855	-0.10035	-167.7	-240.2				
			C:SPS:MARCY_AT1_AT2						1696										
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1			-0.19001	0.38904	888.3	1169.4				
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			-0.19001	0.33832	774.3	1018.8				
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA									
			Open 147828 MASS 765	765	180819	CHA-NY		765	1	NA									
			Open 156 MCY765SW	765	147827	MARCY765		765	1	NA									
			Open 147838 MASS230B	230	147839	MOSES	E	230	1			-0.00000	-0.36368	-150.9	-413.7				
			Open 147828 MASS 765	765	147838	MASS230B		230	1	NA									
			Open 147837 MASS230A	230	147839	MOSES	E	230	1			-0.15872	0.00000	-1360.8	-1360.8				
			Open 147828 MASS 765	765	147837	MASS230A		230	1	NA									
7427	724.9	2807.1	L: 147836 ADRON B2	230	147840	MOSES	W	230	1	-267.1	-440.0	-0.23857	-0.10035	-167.7	-240.4				
			C:HQ-NY-765-New						1877										
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA									
			Open 147828 MASS 765	765	180819	CHA-NY		765	1	NA									
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1			-0.19002	0.38904	888.3	1170.3				
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			-0.19002	0.33832	774.3	1019.5				
			Open 156 MCY765SW	765	147827	MARCY765		765	1	NA									
			Open 147838 MASS230B	230	147839	MOSES	E	230	1			0.00000	-0.36368	-150.9	-414.5				
			Open 147828 MASS 765	765	147838	MASS230B		230	1	NA									
			Open 147837 MASS230A	230	147839	MOSES	E	230	1			-0.15873	0.00000	-153.0	-153.0				
			Open 147828 MASS 765	765	147837	MASS230A		230	1	NA									
			Open 158 MS765SW2	765	147828	MASS	765	765	1	NA									
			Open 157 MS765SW1	765	147828	MASS	765	765	1	NA									
			Decrease bus 180001 BEA-DLX	13.8	generation	by		100.0	percent	dispatch									
			Set bus 181319 CHAT G3	120	load	to		357.0	MW	dispatch									
			Decrease bus 180002 BEA-DL	13.8	generation	by		100.0	percent	dispatch									
			Set bus 181419 CHAT G4	120	load	to		357.0	MW	dispatch									
7428	725.0	2807.2	L: 147835 ADRON B1	230	147840	MOSES	W	230	1	-267.0	-440.0	-0.23855	-0.10035	-167.7	-240.4				
			C:HQ-NY-765-New						1877										
			Open 147827 MARCY765	765	147828	MASS	765	765	1	NA									
			Open 147828 MASS 765	765	180819	CHA-NY		765	1	NA									
			Open 147827 MARCY765	765	147833	MARCY	T1	345	1			-0.19001	0.38904	888.3	1170.3				
			Open 147827 MARCY765	765	147833	MARCY	T1	345	2			-0.19001	0.33832	774.3	1019.6				
			Open 156 MCY765SW	765	147827	MARCY765		765	1	NA									
			Open 147838 MASS230B	230	147839	MOSES	E	230	1			-0.00000	-0.36368	-150.9	-414.5				
			Open 147828 MASS 765	765	147838	MASS230B		230	1	NA									
			Open 147837 MASS230A	230	147839	MOSES	E	230	1			-0.15872	0.00000	-153.0	-153.0				
			Open 147828 MASS 765	765	147837	MASS230A		230	1	NA									
			Open 158 MS765SW2	765	147828	MASS	765	765	1	NA									
			Open 157 MS765SW1	765	147828	MASS	765	765	1	NA									
			Decrease bus 180001 BEA-DLX	13.8	generation	by		100.0	percent	dispatch									
			Set bus 181319 CHAT G3	120	load	to		357.0	MW	dispatch									
			Decrease bus 180002 BEA-DL	13.8	generation	by		100.0	percent	dispatch									
			Set bus 181419 CHAT G4	120	load	to		357.0	MW	dispatch									

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				Open 147837 MASS230A	230	147839	MOSES E	230	1			0.04892	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
7430	729.0	2811.1	L:	136759 BRNS FLS	115	136807	TAYLORVL	115	2	77.1	134.0	0.07799	0.03597	47.7	74.0
				C:HQ-NY-765-New 1877											
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.05777	0.38904	888.3	1171.9
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.05777	0.33832	774.3	1020.9
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.36368	-150.9	-416.0
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			0.04892	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
				Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch					
				Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch					
				Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch					
7431	741.0	2823.0	L:	136759 BRNS FLS	115	136807	TAYLORVL	115	1	77.2	135.0	0.07799	0.03597	47.7	74.4
				C:SPS:MARCY_AT1_AT2 1696											
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.05777	0.38904	888.3	1176.5
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.05777	0.33832	774.3	1024.9
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.36368	-150.9	-420.3
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			0.04892	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
7432	741.8	2823.9	L:	136759 BRNS FLS	115	136807	TAYLORVL	115	1	77.1	135.0	0.07799	0.03597	47.7	74.4
				C:HQ-NY-765-New 1877											
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			0.05777	0.38904	888.3	1176.9
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			0.05777	0.33832	774.3	1025.2
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.36368	-150.9	-420.7
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			0.04892	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch					
				Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch					
				Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch					
				Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch					
7433	750.1	2832.1	L:	136778 LOWVILLE	115	136807	TAYLORVL	115	1	-95.5	-134.0	-0.05139	-0.02283	-73.7	-90.9
				C:SPS:MARCY_AT1_AT2 1696											
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			-0.03926	0.38904	888.3	1180.1
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			-0.03926	0.33832	774.3	1028.0
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.36368	-150.9	-423.7
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			-0.03201	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
7434	751.0	2833.0	L:	136778 LOWVILLE	115	136807	TAYLORVL	115	1	-95.4	-134.0	-0.05139	-0.02283	-73.7	-90.9
				C:HQ-NY-765-New 1877											
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA					
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA					
				Open 147827 MARCY765	765	147833	MARCY T1	345	1			-0.03926	0.38904	888.3	1180.4
				Open 147827 MARCY765	765	147833	MARCY T1	345	2			-0.03926	0.33832	774.3	1028.3
				Open 156 MCY765SW	765	147827	MARCY765	765	1	NA					
				Open 147838 MASS230B	230	147839	MOSES E	230	1			-0.00000	-0.36368	-150.9	-424.0
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA					
				Open 147837 MASS230A	230	147839	MOSES E	230	1			-0.03201	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA					
				Open 158 MS765SW2	765	147828	MASS 765	765	1	NA					
				Open 157 MS765SW1	765	147828	MASS 765	765	1	NA					
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch					

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				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-443.0				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	-0.04881	0.00000	-1360.8	-1360.8				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
7436	804.1	2885.8	L:	136759	BRNS	FLS	115	136771	FLAT	RCK	115	1	-72.4	-135.0	-0.07782	-0.03589	-43.1	-71.9		
				C:HQ-NY-765-New 1877																
				Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
				Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
				Open	147827	MARCY765	765	147833	MARCY T1	345	1	NA	-0.05764	0.38904	888.3	1201.1				
				Open	147827	MARCY765	765	147833	MARCY T1	345	2	NA	-0.05764	0.33832	774.3	1046.3				
				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-443.3				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	-0.04881	0.00000	-153.0	-153.0				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
				Open	158	MS765SW2	765	147828	MASS 765	765	1	NA								
				Open	157	MS765SW1	765	147828	MASS 765	765	1	NA								
				Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
				Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch							
				Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
				Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch							
7437	810.0	2891.6	L:	136761	BU+LY+MO		115	137221	BOONVL		115	1	104.4	146.0	0.05136	0.02282	82.7	101.2		
				C:SPS:MARCY_AT1_AT2 1696																
				Open	147827	MARCY765	765	147833	MARCY T1	345	1	NA	0.03924	0.38904	888.3	1203.4				
				Open	147827	MARCY765	765	147833	MARCY T1	345	2	NA	0.03924	0.33832	774.3	1048.3				
				Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
				Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-445.4				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	0.03200	0.00000	-1360.8	-1360.8				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
7438	810.9	2892.5	L:	136761	BU+LY+MO		115	137221	BOONVL		115	1	104.4	146.0	0.05136	0.02282	82.7	101.2		
				C:HQ-NY-765-New 1877																
				Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
				Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
				Open	147827	MARCY765	765	147833	MARCY T1	345	1	NA	0.03924	0.38904	888.3	1203.7				
				Open	147827	MARCY765	765	147833	MARCY T1	345	2	NA	0.03924	0.33832	774.3	1048.6				
				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-445.8				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	0.03200	0.00000	-153.0	-153.0				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
				Open	158	MS765SW2	765	147828	MASS 765	765	1	NA								
				Open	157	MS765SW1	765	147828	MASS 765	765	1	NA								
				Decrease	bus	180001	BEA-DLX	13.8	generation	by	100.0	percent	dispatch							
				Set	bus	181319	CHAT G3	120	load	to	357.0	MW	dispatch							
				Decrease	bus	180002	BEA-DL	13.8	generation	by	100.0	percent	dispatch							
				Set	bus	181419	CHAT G4	120	load	to	357.0	MW	dispatch							
7439	819.4	2901.0	L:	136759	BRNS	FLS	115	136775	HIGLEY		115	1	-70.9	-135.0	-0.07817	-0.03605	-41.4	-70.9		
				C:SPS:MARCY_AT1_AT2 1696																
				Open	147827	MARCY765	765	147833	MARCY T1	345	1	NA	-0.05791	0.38904	888.3	1207.1				
				Open	147827	MARCY765	765	147833	MARCY T1	345	2	NA	-0.05791	0.33832	774.3	1051.5				
				Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
				Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-448.9				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	-0.04904	0.00000	-1360.8	-1360.8				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
7440	820.3	2901.9	L:	136759	BRNS	FLS	115	136775	HIGLEY		115	1	-70.9	-135.0	-0.07817	-0.03605	-41.4	-71.0		
				C:HQ-NY-765-New 1877																
				Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
				Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
				Open	147827	MARCY765	765	147833	MARCY T1	345	1	NA	-0.05791	0.38904	888.3	1207.4				
				Open	147827	MARCY765	765	147833	MARCY T1	345	2	NA	-0.05791	0.33832	774.3	1051.8				
				Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
				Open	147838	MASS230B	230	147839	MOSES E	230	1	NA	-0.00000	-0.36368	-150.9	-449.2				
				Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
				Open	147837	MASS230A	230	147839	MOSES E	230	1	NA	-0.04904	0.00000	-153.0	-153.0				
				Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								

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			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1	NA											
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1	NA											
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1												
7442	902.3	2983.5	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1	116.1	146.0	0.03315									
			C:Lowville-Taylorvl																
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1												
7443	902.3	2983.5	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1	116.1	146.0	0.03315									
			C:136778 LOWVILLE	115	136807 TAYLORVL	115	1												
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1												
7444	925.3	3006.3	L: 136764 COLTON	115	136771 FLAT RCK	115	1	70.0	142.0	0.07782									
			C:SPS:MARCY_AT1_AT2																
			Open 147827 MARCY765	765	147833 MARCY T1	345	1												
			Open 147827 MARCY765	765	147833 MARCY T1	345	2												
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA											
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA											
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA											
			Open 147838 MASS230B	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA											
			Open 147837 MASS230A	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA											
7445	926.2	3007.2	L: 136764 COLTON	115	136771 FLAT RCK	115	1	69.9	142.0	0.07782									
			C:HQ-NY-765-New																
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA											
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA											
			Open 147827 MARCY765	765	147833 MARCY T1	345	1												
			Open 147827 MARCY765	765	147833 MARCY T1	345	2												
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA											
			Open 147838 MASS230B	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA											
			Open 147837 MASS230A	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA											
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA											
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA											
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch												
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch												
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch												
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch												
7446	964.6	3045.3	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-268.4	-317.0	-0.05039									
			C:SIN:440																
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
7447	964.6	3045.3	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-268.4	-317.0	-0.05039									
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1												
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
7448	966.0	3046.7	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-102.0	-134.0	-0.03316									
			C:136758 BREMEN	115	136807 TAYLORVL	115	1												
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1												
7449	966.0	3046.7	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-102.0	-134.0	-0.03316									
			C:Taylorvl-Bremen																
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1												
7450	973.0	3053.7	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-84.0	-134.0	-0.05136									
			C:SPS:MARCY_AT1_AT2																
			Open 147827 MARCY765	765	147833 MARCY T1	345	1												
			Open 147827 MARCY765	765	147833 MARCY T1	345	2												
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA											
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA											
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA											
			Open 147838 MASS230B	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA											
			Open 147837 MASS230A	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA											
7451	973.9	3054.6	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-84.0	-134.0	-0.05136									
			C:HQ-NY-765-New																
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA											
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA											
			Open 147827 MARCY765	765	147833 MARCY T1	345	1												
			Open 147827 MARCY765	765	147833 MARCY T1	345	2												
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA											
			Open 147838 MASS230B	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA											
			Open 147837 MASS230A	230	147839 MOSES E	230	1												
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA											
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA											









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				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				-0.14679	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA						
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA						
				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch						
7489	1284.0	3362.9	L:	136750 ALCOA-NM	115 136767 DENNISON	115 1		81.1	222.0	0.10973	0.05258	41.9	109.4
				C:SPS:MARCY_AT1_AT2		1696							
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.07857	0.38904	888.3	1387.8
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.07857	0.33832	774.3	1208.7
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				-0.00000	-0.36368	-150.9	-617.8
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.06721	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
7490	1286.1	3365.0	L:	136750 ALCOA-NM	115 136767 DENNISON	115 1		80.9	222.0	0.10973	0.05258	41.9	109.6
				C:HQ-NY-765-New		1877							
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.07857	0.38904	888.3	1388.6
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.07857	0.33832	774.3	1209.4
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				-0.00000	-0.36368	-150.9	-618.6
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.06721	0.00000	-153.0	-153.0
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
				Open 158 MS765SW2	765 147828 MASS 765	765 1	NA						
				Open 157 MS765SW1	765 147828 MASS 765	765 1	NA						
				Decrease bus 180001 BEA-DLX	13.8 generation by	100.0	percent dispatch						
				Set bus 181319 CHAT G3	120 load to	357.0	MW dispatch						
				Decrease bus 180002 BEA-DL	13.8 generation by	100.0	percent dispatch						
				Set bus 181419 CHAT G4	120 load to	357.0	MW dispatch						
7491	1306.9	3385.7	L:	136764 COLTON	115 136771 FLAT RCK	115 1		67.0	142.0	0.05741	0.03589	40.6	87.5
				C:136764 COLTON	115 136775 HIGLEY	115 1	974						
				Open 136764 COLTON	115 136775 HIGLEY	115 1				0.59704	0.03605	44.2	91.3
7492	1308.6	3387.3	L:	136759 BRNS FLS	115 136807 TAYLORVL	115 2		27.5	134.0	0.08141	0.03597	47.7	94.8
				C:147839 MOSES E	230 147840 MOSES W	230 1	1323						
				Open 147839 MOSES E	230 147840 MOSES W	230 1				-0.09519	-0.47736	212.9	-411.7
7493	1310.1	3388.8	L:	136759 BRNS FLS	115 136807 TAYLORVL	115 2		65.1	134.0	0.05260	0.03597	47.7	94.9
				C:Taylorville 1		1820							
				Open 136778 LOWVILLE	115 136807 TAYLORVL	115 1				0.21298	-0.02283	-73.7	-103.6
				Open 136788 N CARTHG	115 136807 TAYLORVL	115 1				0.15565	-0.01296	12.0	-5.0
				Open 136759 BRNS FLS	115 136807 TAYLORVL	115 1				0.65353	0.03597	47.7	94.9
7494	1320.9	3399.5	L:	136759 BRNS FLS	115 136807 TAYLORVL	115 1		27.5	135.0	0.08141	0.03597	47.7	95.2
				C:147839 MOSES E	230 147840 MOSES W	230 1	1323						
				Open 147839 MOSES E	230 147840 MOSES W	230 1				-0.09519	-0.47736	212.9	-417.6
7495	1335.8	3414.4	L:	136764 COLTON	115 136771 FLAT RCK	115 1		65.3	142.0	0.05741	0.03589	40.6	88.5
				C:136759 BRNS FLS	115 136775 HIGLEY	115 1	962						
				Open 136759 BRNS FLS	115 136775 HIGLEY	115 1				-0.59704	-0.03605	-41.4	-89.6
7496	1338.5	3417.1	L:	136758 BREMEN	115 136761 BU+LY+MO	115 1		77.2	146.0	0.05136	0.02282	55.5	86.1
				C:SPS:MARCY_AT1_AT2		1696							
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.03924	0.38904	888.3	1409.0
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.03924	0.33832	774.3	1227.1
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						
				Open 147838 MASS230B	230 147839 MOSES E	230 1				0.00000	-0.36368	-150.9	-637.7
				Open 147828 MASS 765	765 147838 MASS230B	230 1	NA						
				Open 147837 MASS230A	230 147839 MOSES E	230 1				0.03200	0.00000	-1360.8	-1360.8
				Open 147828 MASS 765	765 147837 MASS230A	230 1	NA						
7497	1339.4	3418.0	L:	136758 BREMEN	115 136761 BU+LY+MO	115 1		77.2	146.0	0.05136	0.02282	55.5	86.1
				C:HQ-NY-765-New		1877							
				Open 147827 MARCY765	765 147828 MASS 765	765 1	NA						
				Open 147828 MASS 765	765 180819 CHA-NY	765 1	NA						
				Open 147827 MARCY765	765 147833 MARCY T1	345 1				0.03924	0.38904	888.3	1409.4
				Open 147827 MARCY765	765 147833 MARCY T1	345 2				0.03924	0.33832	774.3	1227.4
				Open 156 MCY765SW	765 147827 MARCY765	765 1	NA						

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Set bus 181419 CHAT G4 120 load to 357.0 MW dispatch													
7498	1349.5	3428.0	L: 136778 LOWVILLE	115	146731 TUGHILL	115	1	89.2	134.0	0.03316	0.02283	51.8	82.6
C:Lyons Falls Tap													
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1			0.45295	0.02282	82.7	113.5
7499	1349.5	3428.0	L: 136778 LOWVILLE	115	146731 TUGHILL	115	1	89.2	134.0	0.03316	0.02283	51.8	82.6
C:136761 BU+LY+MO													
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1			0.45295	0.02282	82.7	113.5
7500	1365.0	3443.4	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-102.0	-440.0	-0.24764	-0.10035	-167.7	-304.6
C:147839 MOSES E													
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30855	-0.47736	212.9	-438.7
7501	1365.1	3443.5	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-102.0	-440.0	-0.24763	-0.10035	-167.7	-304.6
C:147839 MOSES E													
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.30853	-0.47736	212.9	-438.7
7502	1377.7	3456.0	L: 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-91.5	-134.0	-0.03085	-0.02283	-73.7	-105.2
C:Taylorville 2													
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.17042	0.03597	47.7	97.3
			Open 136766 DEPERIET	115	136807 TAYLORVL	115	1			0.20576	-0.01283	-10.6	-28.3
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.50441	-0.02282	-62.3	-93.8
			Open 136786 MOSH-SUN	115	136807 TAYLORVL	115	1			-0.35587	0.00000	-21.7	-21.7
7503	1380.6	3458.9	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-22.9	-135.0	-0.08122	-0.03589	-43.1	-92.6
C:147839 MOSES E													
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.09497	-0.47736	212.9	-446.1
7504	1382.0	3460.3	L: 137221 BOONVL	115	146731 TUGHILL	115	1	-88.2	-134.0	-0.03316	-0.02283	-56.6	-88.2
C:Boon-Taylor													
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1			-0.45295	0.02282	82.7	114.2
			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1			NA			
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1			NA			
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			-0.28911	0.00000	-20.4	-20.4
7505	1383.7	3462.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07689	-0.04744	-455.1	-520.8
C:SIN:440													
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14032	0.20988	1036.7	1327.1
7506	1383.7	3462.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-600.6	-707.0	-0.07689	-0.04744	-455.1	-520.8
C:125001 ROCK TAV													
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14032	0.20988	1036.7	1327.1
7507	1388.9	3467.2	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-88.0	-134.0	-0.03315	-0.02282	-62.3	-94.0
C:Boonvl-Tug Hill													
			Open 137221 BOONVL	115	146731 TUGHILL	115	1			0.45283	-0.02283	-56.6	-88.3
7508	1388.9	3467.2	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-88.0	-134.0	-0.03315	-0.02282	-62.3	-94.0
C:137221 BOONVL													
			Open 137221 BOONVL	115	146731 TUGHILL	115	1			0.45283	-0.02283	-56.6	-88.3
7510	1396.1	3474.3	L: 136759 BRNS FLS	115	136775 HIGLEY	115	1	-21.1	-135.0	-0.08160	-0.03605	-41.4	-91.7
C:147839 MOSES E													
			Open 147839 MOSES E	230	147840 MOSES W	230	1			0.09540	-0.47736	212.9	-453.5
7511	1408.1	3486.2	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	2	65.9	134.0	0.04839	0.03597	47.7	98.4
C:BrownsFalls 1													
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1			0.33809	-0.03589	-43.1	-93.6
			Open 136759 BRNS FLS	115	136790 NEWTON F	115	1			0.50952	0.00000	0.2	0.2
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1			0.68259	0.03597	47.7	98.4
7512	1421.8	3499.9	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	66.3	135.0	0.04832	0.03597	47.7	98.9
C:BrownsFalls 2													
			Open 136759 BRNS FLS	115	136775 HIGLEY	115	1			0.33911	-0.03605	-41.4	-92.7
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	2			0.68308	0.03597	47.7	98.9
7513	1454.4	3532.3	L: 136761 BU+LY+MO	115	137221 BOONVL	115	1	69.4	146.0	0.05269	0.02282	82.7	115.9
C:147839 MOSES E													
			Open 147839 MOSES E	230	147840 MOSES W	230	1			-0.06258	-0.47736	212.9	-481.4
7514	1454.7	3532.6	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-85.8	-134.0	-0.03315	-0.02282	-62.3	-95.5
C:136778 LOWVILLE													
			Open 136778 LOWVILLE	115	146731 TUGHILL	115	1			-0.45283	0.02283	51.8	85.0
7515	1454.7	3532.6	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-85.8	-134.0	-0.03315	-0.02282	-62.3	-95.5
C:Tug Hill-Lowville													
			Open 136778 LOWVILLE	115	146731 TUGHILL	115	1			-0.45283	0.02283	51.8	85.0
7516	1463.3	3541.1	L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-89.0	-134.0	-0.03078	-0.02282	-62.3	-95.7
C:Taylorville 1													
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1			0.50356	-0.02283	-73.7	-107.1
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1			0.19940	-0.01296	12.0	-7.0
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1			0.16993	0.03597	47.7	100.4
7517	1482.6	3560.4	L: 137221 BOONVL	115	146731 TUGHILL	115	1	-84.8	-134.0	-0.03316	-0.02283	-56.6	-90.4
C:Taylorvl-Bremen													
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.45295	-0.02282	-62.3	-96.1
7518	1482.6	3560.4	L: 137221 BOONVL	115	146731 TUGHILL	115	1	-84.8	-134.0	-0.03316	-0.02283	-56.6	-90.4
C:136758 BREMEN													
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1			0.45295	-0.02282	-62.3	-96.1

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			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1	NA							
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1		0.28911	0.00000	-20.4	-20.4			
7522	1541.6	3619.0	L: 147827 MARCY765	765	147833 MARCY T1	345	1	888.3	1488.0	0.38904					
			Base Case												
7523	1548.1	3625.5	L: 136764 COLTON	115	136775 HIGLEY	115	1	70.0	159.0	0.05752	0.03605	44.2	100.0		
			C:136759 BRNS FLS	115	136771 FLAT RCK	115	1	961							
			Open 136759 BRNS FLS	115	136771 FLAT RCK	115	1								
7524	1574.1	3651.3	L: 136764 COLTON	115	136775 HIGLEY	115	1	68.5	159.0	0.05752	0.03605	44.2	100.9		
			C:136764 COLTON	115	136771 FLAT RCK	115	1	973							
			Open 136764 COLTON	115	136771 FLAT RCK	115	1		0.59813	0.03589	40.6	97.1			
7525	1575.2	3652.3	L: 137221 BOONVL	115	146731 TUGHILL	115	1	-81.8	-134.0	-0.03316	-0.02283	-56.6	-92.6		
			C:Bremen-Lyons Falls Tap 1806												
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1		-0.45295	0.02282	55.5	91.5			
7526	1575.2	3652.3	L: 137221 BOONVL	115	146731 TUGHILL	115	1	-81.8	-134.0	-0.03316	-0.02283	-56.6	-92.6		
			C:136758 BREMEN	115	136761 BU+LY+MO	115	1	959							
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1		-0.45295	0.02282	55.5	91.5			
7527	1587.4	3664.5	L: Interface 40 NE-ZoneD					-126.8	-258.0	-0.08265	0.00000	-84.1	-84.1		
			C:SPS:MARCY_AT1_AT2 1696												
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.11364	0.38904	888.3	1505.8			
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.11364	0.33832	774.3	1311.3			
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36368	-150.9	-728.2				
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.10744	0.00000	-1360.8	-1360.8				
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
7528	1587.4	3664.5	L: 100511 GRAND IS	115	147852 PLAT T#3	115	1	-126.8	-258.0	-0.08265	0.00000	-84.1	-84.1		
			C:SPS:MARCY_AT1_AT2 1696												
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.11364	0.38904	888.3	1505.8			
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.11364	0.33832	774.3	1311.3			
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36368	-150.9	-728.2				
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.10744	0.00000	-1360.8	-1360.8				
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
7529	1587.4	3664.5	L: Interface 39 Zoned-NE					126.8	258.0	0.08265	-0.00000	84.1	84.1		
			C:SPS:MARCY_AT1_AT2 1696												
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		0.11364	0.38904	888.3	1505.8			
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		0.11364	0.33832	774.3	1311.3			
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.00000	-0.36368	-150.9	-728.2				
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1	0.10744	0.00000	-1360.8	-1360.8				
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
7530	1602.7	3679.7	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-224.6	-440.0	-0.13441	-0.10035	-167.7	-328.5		
			C:147835 ADRON B1	230	147840 MOSES W	230	1	1319							
			Open 147835 ADRON B1	230	147840 MOSES W	230	1		0.33942	-0.10035	-167.7	-328.5			
7531	1602.8	3679.8	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-224.6	-440.0	-0.13441	-0.10035	-167.7	-328.5		
			C:147836 ADRON B2	230	147840 MOSES W	230	1	1320							
			Open 147836 ADRON B2	230	147840 MOSES W	230	1		0.33940	-0.10035	-167.7	-328.5			
7532	1613.3	3690.3	*L: 136758 BREMEN	115	136807 TAYLORVL	115	1	-49.0	-134.0	-0.05269	-0.02282	-62.3	-99.1		
			C:147839 MOSES E	230	147840 MOSES W	230	1	1323							
			Open 147839 MOSES E	230	147840 MOSES W	230	1		0.06258	-0.47736	212.9	-557.2			
7533	1617.1	3694.0	L: Interface 40 NE-ZoneD					-124.3	-258.0	-0.08265	0.00000	-84.1	-84.1		
			C:HQ-NY-765-New 1877												
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA							
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA							
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.11364	0.38904	888.3	1517.4			
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.11364	0.33832	774.3	1321.3			
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA							
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36368	-150.9	-739.0				
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA							
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.10744	0.00000	-153.0	-153.0				
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA							
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA							
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA							
			Decrease bus 180001 BEA-DLX 13.8 generation by 100.0 percent dispatch												

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			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
			Open	147838	MASS230B	230	147839	MOSES E	230	1		0.00000	-0.36368	-150.9	-739.0				
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
			Open	147837	MASS230A	230	147839	MOSES E	230	1		-0.10744	0.00000	-153.0	-153.0				
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
			Open	158	MS765SW2	765	147828	MASS 765	765	1	NA								
			Open	157	MS765SW1	765	147828	MASS 765	765	1	NA								
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0	percent dispatch								
			Set	bus 181319	CHAT G3	120	load	to		357.0	MW dispatch								
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0	percent dispatch								
			Set	bus 181419	CHAT G4	120	load	to		357.0	MW dispatch								
7535	1617.1	3694.0	L:	Interface	39 ZoneD-NE					124.3	258.0	0.08265	-0.00000	84.1	84.1				
			C:	HQ-NY-765-New						1877									
			Open	147827	MARCY765	765	147828	MASS 765	765	1	NA								
			Open	147828	MASS 765	765	180819	CHA-NY	765	1	NA								
			Open	147827	MARCY765	765	147833	MARCY T1	345	1		0.11364	0.38904	888.3	1517.4				
			Open	147827	MARCY765	765	147833	MARCY T1	345	2		0.11364	0.33832	774.3	1321.3				
			Open	156	MCY765SW	765	147827	MARCY765	765	1	NA								
			Open	147838	MASS230B	230	147839	MOSES E	230	1		-0.00000	-0.36368	-150.9	-739.0				
			Open	147828	MASS 765	765	147838	MASS230B	230	1	NA								
			Open	147837	MASS230A	230	147839	MOSES E	230	1		0.10744	0.00000	-153.0	-153.0				
			Open	147828	MASS 765	765	147837	MASS230A	230	1	NA								
			Open	158	MS765SW2	765	147828	MASS 765	765	1	NA								
			Open	157	MS765SW1	765	147828	MASS 765	765	1	NA								
			Decrease bus	180001	BEA-DLX		13.8	generation by		100.0	percent dispatch								
			Set	bus 181319	CHAT G3	120	load	to		357.0	MW dispatch								
			Decrease bus	180002	BEA-DL		13.8	generation by		100.0	percent dispatch								
			Set	bus 181419	CHAT G4	120	load	to		357.0	MW dispatch								
7536	1619.8	3696.7	L:	136759	BRNS FLS	115	136807	TAYLORVL	115	2		47.7	106.0	0.03597					
			Base Case																
7537	1627.8	3704.7	L:	136778	LOWVILLE	115	146731	TUGHILL	115	1		80.0	134.0	0.03316	0.02283	51.8	88.9		
			C:	136758	BREMEN	115	136807	TAYLORVL	115	1	960								
			Open	136758	BREMEN	115	136807	TAYLORVL	115	1		-0.45295	-0.02282	-62.3	-99.5				
7538	1627.8	3704.7	L:	136778	LOWVILLE	115	146731	TUGHILL	115	1		80.0	134.0	0.03316	0.02283	51.8	88.9		
			C:	Taylorvl-Bremen															
			Open	136758	BREMEN	115	136807	TAYLORVL	115	1		-0.45295	-0.02282	-62.3	-99.5				
7539	1641.5	3718.3	L:	136759	BRNS FLS	115	136771	FLAT RCK	115	1		-43.1	-102.0	-0.03589					
			Base Case																
7540	1649.1	3725.9	L:	136759	BRNS FLS	115	136771	FLAT RCK	115	1		-55.3	-135.0	-0.04832	-0.03589	-43.1	-102.3		
			C:	BrownsFalls 2															
			Open	136759	BRNS FLS	115	136775	HIGLEY	115	1		0.66089	-0.03605	-41.4	-100.9				
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	2		0.31692	0.03597	47.7	107.1				
7541	1656.1	3732.8	L:	136764	COLTON	115	136775	HIGLEY	115	1		23.9	159.0	0.08160	0.03605	44.2	103.9		
			C:	147839	MOSES E	230	147840	MOSES W	230	1	1323								
			Open	147839	MOSES E	230	147840	MOSES W	230	1		-0.09540	-0.47736	212.9	-577.7				
7542	1660.1	3736.8	L:	136759	BRNS FLS	115	136775	HIGLEY	115	1		-54.7	-135.0	-0.04839	-0.03605	-41.4	-101.3		
			C:	BrownsFalls 1															
			Open	136759	BRNS FLS	115	136771	FLAT RCK	115	1		0.66191	-0.03589	-43.1	-102.7				
			Open	136759	BRNS FLS	115	136790	NEWTON F	115	1		0.49048	0.00000	0.2	0.2				
			Open	136759	BRNS FLS	115	136807	TAYLORVL	115	1		0.31741	0.03597	47.7	107.5				
7543	1668.1	3744.7	L:	137532	RTRDM1	115	137730	ROTRDM.2	230	2		-246.0	-300.0	-0.03240					
			Base Case																
7544	1680.8	3757.4	L:	136759	BRNS FLS	115	136775	HIGLEY	115	1		-41.4	-102.0	-0.03605					
			Base Case																
7545	1685.1	3761.7	L:	137200	EDIC	345	147833	MARCY T1	345	1		-1065.0	-1793.0	-0.43203	-0.32124	-583.2	-1124.5		
			C:	130750	COOPC345	345	147833	MARCY T1	345	1	261								
			Open	130750	COOPC345	345	147833	MARCY T1	345	1		0.68038	-0.16283	-708.1	-982.5				
7547	1720.3	3796.7	L:	136778	LOWVILLE	115	146731	TUGHILL	115	1		76.9	134.0	0.03316	0.02283	51.8	91.1		
			C:	136758	BREMEN	115	136761	BU+LY+MO	115	1	959								
			Open	136758	BREMEN	115	136761	BU+LY+MO	115	1		0.45295	0.02282	55.5	94.8				
7548	1720.3	3796.7	L:	136778	LOWVILLE	115	146731	TUGHILL	115	1		76.9	134.0	0.03316	0.02283	51.8	91.1		
			C:	Bremen-Lyons Falls Tap															
			Open	136758	BREMEN	115	136761	BU+LY+MO	115	1		0.45295	0.02282	55.5	94.8				
7549	1721.1	3797.4	*L:	137221	BOONVL	115	146731	TUGHILL	115	1		-43.3	-134.0	-0.05272	-0.02283	-56.6	-95.9		
			C:	147839	MOSES E	230	147840	MOSES W	230	1	1323								
			Open	147839	MOSES E	230	147840	MOSES W	230	1		0.06261	-0.47736	212.9	-608.7				
7550	1721.2	3797.5	L:	136758	BREMEN	115	136761	BU+LY+MO	115	1		88.9	146.0	0.03315	0.02282	55.5	94.8		
			C:	136778	LOWVILLE	115	136807	TAYLORVL	115	1	991								
			Open	136778	LOWVILLE	115	136807	TAYLORVL	115	1		-0.45283	-0.02283	-73.7	-113.0				
7551	1721.2	3797.5	L:	136758	BREMEN	115	136761	BU+LY+MO	115	1		88.9	146.0	0.03315	0.02282	55.5	94.8		
			C:	Lowville-Taylorvl															
			Open	136778	LOWVILLE	115	136807	TAYLORVL	115	1		-0.45283	-0.02283	-73.7	-113.0				

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			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.42190	0.00000	0.1	0.1		
7555	1743.4	3819.6	L: 147837 MASS230A	230	147839	MOSES E	230	1		-259.1	-1348.0	-0.62460	-0.36368	-150.9	-784.9
			C:SER:MASS765/230_2					1691							
			Open 147828 MASS 765	765	147838	MASS230B	230	1		0.71743	-0.36368	-150.7	-784.8		
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.42190	0.00000	0.1	0.1		
7556	1743.5	3819.7	L: 147837 MASS230A	230	147839	MOSES E	230	1		-259.0	-1348.0	-0.62460	-0.36368	-150.9	-784.9
			C:147828 MASS 765	765	147838	MASS230B	230	1	1312						
			Open 147828 MASS 765	765	147838	MASS230B	230	1		0.71743	-0.36368	-150.7	-784.8		
7557	1743.5	3819.7	L: 147838 MASS230B	230	147839	MOSES E	230	1		-259.0	-1348.0	-0.62460	-0.36368	-150.9	-784.9
			C:147828 MASS 765	765	147837	MASS230A	230	1	1311						
			Open 147828 MASS 765	765	147837	MASS230A	230	1		0.71743	-0.36368	-150.7	-784.8		
7558	1743.6	3819.8	L: 147828 MASS 765	765	147838	MASS230B	230	1		-259.0	-1348.0	-0.62460	-0.36368	-150.7	-784.8
			C:147837 MASS230A	230	147839	MOSES E	230	1	1321						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.71743	-0.36368	-150.9	-785.0		
7559	1743.6	3819.8	L: 147828 MASS 765	765	147837	MASS230A	230	1		-259.0	-1348.0	-0.62460	-0.36368	-150.7	-784.8
			C:147838 MASS230B	230	147839	MOSES E	230	1	1322						
			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.71743	-0.36368	-150.9	-785.0		
7560	1743.6	3819.8	L: 147828 MASS 765	765	147838	MASS230B	230	1		-258.9	-1348.0	-0.62460	-0.36368	-150.7	-784.9
			C:SER:MASS765/230_1					1690							
			Open 147828 MASS 765	765	147837	MASS230A	230	1		0.71743	-0.36368	-150.7	-784.9		
			Open 147837 MASS230A	230	147839	MOSES E	230	1		-0.42190	0.00000	0.1	0.1		
7561	1743.6	3819.8	L: 147828 MASS 765	765	147837	MASS230A	230	1		-258.9	-1348.0	-0.62460	-0.36368	-150.7	-784.9
			C:SER:MASS765/230_2					1691							
			Open 147828 MASS 765	765	147838	MASS230B	230	1		0.71743	-0.36368	-150.7	-784.9		
			Open 147838 MASS230B	230	147839	MOSES E	230	1		-0.42190	0.00000	0.1	0.1		
7562	1743.7	3819.9	L: 147828 MASS 765	765	147838	MASS230B	230	1		-258.9	-1348.0	-0.62460	-0.36368	-150.7	-784.9
			C:147828 MASS 765	765	147837	MASS230A	230	1	1311						
			Open 147828 MASS 765	765	147837	MASS230A	230	1		0.71743	-0.36368	-150.7	-784.9		
7563	1743.7	3819.9	L: 147828 MASS 765	765	147837	MASS230A	230	1		-258.9	-1348.0	-0.62460	-0.36368	-150.7	-784.9
			C:147828 MASS 765	765	147838	MASS230B	230	1	1312						
			Open 147828 MASS 765	765	147838	MASS230B	230	1		0.71743	-0.36368	-150.7	-784.9		
7564	1764.6	3840.7	L: 146758 CHESTER	138	146773	SGRLF138	138	1		228.1	317.0	0.05039	0.02763	115.6	164.4
			C:SIN:440					1783							
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		0.10846	0.20988	1036.7	1407.0		
7565	1764.6	3840.7	L: 146758 CHESTER	138	146773	SGRLF138	138	1		228.1	317.0	0.05039	0.02763	115.6	164.4
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	69						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		0.10846	0.20988	1036.7	1407.0		
7566	1766.4	3842.4	L: 130750 COOPC345	345	130753	FRASR345	345	1		-915.5	-1207.0	-0.16504			
			Base Case												
7567	1797.0	3872.9	L: 147836 ADRON B2	230	147840	MOSES W	230	1		-167.7	-348.0	-0.10035			
			Base Case												
7568	1797.1	3873.0	L: 147835 ADRON B1	230	147840	MOSES W	230	1		-167.7	-348.0	-0.10035			
			Base Case												
7569	1807.7	3883.5	L: 137210 PORTER 2	230	137928	CHASES L	230	1		-302.2	-560.0	-0.14259	-0.09454	-201.6	-372.5
			C:137210 PORTER 2	230	147836	ADRON B2	230	1	1033						
			Open 137210 PORTER 2	230	147836	ADRON B2	230	1		0.50819	-0.09454	-198.0	-368.9		
7571	1812.4	3888.2	L: 136778 LOWVILLE	115	146731	TUGHLLL	115	1		38.5	134.0	0.05272	0.02283	51.8	93.2
			C:147839 MOSES E	230	147840	MOSES W	230	1	1323						
			Open 147839 MOSES E	230	147840	MOSES W	230	1		-0.06261	-0.47736	212.9	-652.2		
7572	1813.5	3889.3	L: 136750 ALCOA-NM	115	136767	DENNISON	115	1		14.3	222.0	0.11453	0.05258	41.9	137.3
			C:147839 MOSES E	230	147840	MOSES W	230	1	1323						
			Open 147839 MOSES E	230	147840	MOSES W	230	1		-0.12977	-0.47736	212.9	-652.8		
7573	1815.7	3891.5	L: 137210 PORTER 2	230	137928	CHASES L	230	1		-140.8	-560.0	-0.23086	-0.09454	-201.6	-373.3
			C:147839 MOSES E	230	147840	MOSES W	230	1	1323						
			Open 147839 MOSES E	230	147840	MOSES W	230	1		0.28556	-0.47736	212.9	-653.8		
7574	1820.1	3895.8	L: 137210 PORTER 2	230	147836	ADRON B2	230	1		-300.5	-560.0	-0.14259	-0.09454	-198.0	-370.1
			C:137210 PORTER 2	230	137928	CHASES L	230	1	1032						
			Open 137210 PORTER 2	230	137928	CHASES L	230	1		0.50825	-0.09454	-201.6	-373.7		
7576	1831.5	3907.2	L: 137210 PORTER 2	230	147836	ADRON B2	230	1		-137.2	-560.0	-0.23084	-0.09454	-198.0	-371.2
			C:147839 MOSES E	230	147840	MOSES W	230	1	1323						
			Open 147839 MOSES E	230	147840	MOSES W	230	1		0.28553	-0.47736	212.9	-661.4		
7577	1845.7	3921.4	L: 136764 COLTON	115	136771	FLAT RCK	115	1		52.8	142.0	0.04832	0.03589	40.6	106.8
			C:BrownsFalls 2					1825							
			Open 136759 BRNS FLS	115	136775	HIGLEY	115	1		-0.66089	-0.03605	-41.4	-107.9		
			Open 136759 BRNS FLS	115	136807	TAYLORVL	115	2		-0.31692	0.03597	47.7	114.1		
7578	1885.9	3961.3	L: 137210 PORTER 2	230	147836	ADRON B2	230	1		-291.1	-560.0	-0.14259	-0.09454	-198.0	-376.3
			C:137928 CHASES L	230	147835	ADRON B1	230	1	1268						
			Open 137928 CHASES L	230	147835	ADRON B1	230	1		0.50825	-0.09454	-183.1	-361.4		
7579	1891.0	3966.3	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1		600.6	746.0	0.07689	0.04744	455.1	544.8
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	69						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1		0.14032	0.20988	1036.7	1433.6		
7580	1891.0	3966.3	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1		600.6	746.0	0.07689	0.04744	455.1	544.8





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7606	2021.0	4095.5	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	79.0	146.0	0.03315	0.02282	55.5	101.7
			C:136778 LOWVILLE	115	146731 TUGHILL	115	1						
			Open 136778 LOWVILLE	115	146731 TUGHILL	115	1	0.45283	0.02283	51.8	97.9		
7607	2021.0	4095.5	L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	79.0	146.0	0.03315	0.02282	55.5	101.7
			C:Tug Hill-Lowville										
			Open 136778 LOWVILLE	115	146731 TUGHILL	115	1	0.45283	0.02283	51.8	97.9		
7608	2023.5	4098.1	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	50.2	135.0	0.04191	0.03597	47.7	120.5
			C:SER:MASS765/230_2										
			Open 147828 MASS 765	765	147838 MASS230B	230	1	-0.01632	-0.36368	-150.7	-886.6		
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.02455	0.00000	0.1	0.1		
7609	2023.5	4098.1	L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	50.2	135.0	0.04191	0.03597	47.7	120.5
			C:SER:MASS765/230_1										
			Open 147828 MASS 765	765	147837 MASS230A	230	1	-0.01632	-0.36368	-150.7	-886.6		
			Open 147837 MASS230A	230	147839 MOSES E	230	1	0.02455	0.00000	0.1	0.1		
7610	2023.5	4098.1	*L: 136759 BRNS FLS	115	136807 TAYLORVL	115	1	50.2	135.0	0.04191	0.03597	47.7	120.5
			C:147837 MASS230A	230	147839 MOSES E	230	1						
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.01632	-0.36368	-150.9	-886.8		
7615	2039.5	4114.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-1219.4	-1724.0	-0.24743	-0.20162	-886.3	-1297.5
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1	0.34138	-0.13418	-975.7	-1249.3		
7616	2061.3	4135.6	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1219.0	-1703.0	-0.23483	-0.16504	-915.5	-1255.7
			C:130750 COOPC345	345	147833 MARCY T1	345	1						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1	0.42859	-0.16283	-708.1	-1043.7		
7617	2069.1	4143.4	L: 136216 LTHSE HL	115	136218 MALLORY	115	1	46.3	145.0	0.04768	0.02213	33.2	79.0
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	0.03512	0.38904	888.3	1693.2		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	0.03512	0.33832	774.3	1474.3		
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36368	-150.9	-903.4		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1	0.03349	0.00000	-153.0	-153.0		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
7618	2073.2	4147.5	*L: 136758 BREMEN	115	136761 BU+LY+MO	115	1	82.2	146.0	0.03078	0.02282	55.5	102.8
			C:Taylorville 1										
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-0.50356	-0.02283	-73.7	-121.1		
			Open 136788 N CARTHG	115	136807 TAYLORVL	115	1	-0.19940	-0.01296	12.0	-14.9		
			Open 136759 BRNS FLS	115	136807 TAYLORVL	115	1	-0.16993	0.03597	47.7	122.3		
7619	2073.4	4147.7	L: 147827 MARCY765	765	147833 MARCY T1	345	1	919.2	1756.0	0.40357	0.38904	888.3	1694.9
			C:137210 PORTER 2	230	137928 CHASES L	230	1						
			Open 137210 PORTER 2	230	137928 CHASES L	230	1	-0.15364	-0.09454	-201.6	-397.7		
7620	2074.1	4148.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1213.6	-1724.0	-0.24611	-0.20028	-880.3	-1295.7
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1	0.34155	-0.13418	-975.7	-1254.0		
7621	2074.8	4149.1	L: 147827 MARCY765	765	147833 MARCY T1	345	1	918.7	1756.0	0.40356	0.38904	888.3	1695.5
			C:137210 PORTER 2	230	147836 ADRON B2	230	1						
			Open 137210 PORTER 2	230	147836 ADRON B2	230	1	-0.15361	-0.09454	-198.0	-394.2		
7622	2076.2	4150.4	L: 136216 LTHSE HL	115	136218 MALLORY	115	1	46.0	145.0	0.04768	0.02213	33.2	79.1
			C:SPS:MARCY_AT1_AT2										
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	0.03512	0.38904	888.3	1696.0		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	0.03512	0.33832	774.3	1476.7		
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.00000	-0.36368	-150.9	-905.9		
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1	0.03349	0.00000	-1360.8	-1360.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
7623	2080.4	4154.7	L: 147827 MARCY765	765	147833 MARCY T1	345	1	916.4	1756.0	0.40357	0.38904	888.3	1697.6
			C:137928 CHASES L	230	147835 ADRON B1	230	1						
			Open 137928 CHASES L	230	147835 ADRON B1	230	1	-0.15364	-0.09454	-183.1	-379.8		
7626	2080.9	4155.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1182.2	-1792.0	-0.29303	-0.22418	-905.3	-1371.7
			C:137200 EDIC	345	137452 N.SCOT77	345	1						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1	-0.34354	0.20044	806.2	1223.3		
7630	2091.6	4165.8	L: 136750 ALCOA-NM	115	136767 DENNISON	115	1	104.8	222.0	0.05601	0.05258	41.9	151.9

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7635	2113.9	4188.0	L: 147852 PLAT T#3	115	147922 PLAT 115	115	3	-127.3	-302.0	-0.08265	0.00000	-84.6	-84.6
			C:SPS:MARCY_ATL_AT2				1696						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	-0.11364	0.38904	888.3	1710.7		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	-0.11364	0.33832	774.3	1489.5		
			Open 147827 MARCY765	765	147828 MASS 765	765	1					NA	
			Open 147828 MASS 765	765	180819 CHA-NY	765	1					NA	
			Open 156 MCY765SW	765	147827 MARCY765	765	1					NA	
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.00000	-0.36368	-150.9	-919.7		
			Open 147828 MASS 765	765	147838 MASS230B	230	1					NA	
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.10744	0.00000	-1360.8	-1360.8		
			Open 147828 MASS 765	765	147837 MASS230A	230	1					NA	
7637	2115.0	4189.1	L: 147827 MARCY765	765	147833 MARCY T1	345	1	933.5	1756.0	0.38886	0.38904	888.3	1711.1
			C:GEN:FITZPATR				1658						
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1	0.01764	-0.01024	-211.9	-233.6		
			Open 137200 EDIC	345	147830 JA FITZP	345	1	-0.06135	0.00000	37.2	37.2		
			Remove unit 1 from bus	147797 JAFITZ1G	24.0	851.5 MW	dispatch						
7638	2115.7	4189.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1143.5	-1724.0	-0.27436	-0.20028	-880.3	-1304.0
			C:BUS:N.S._77				1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1	0.60286	-0.02224	-100.5	-147.6		
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1	0.39246	-0.00751	264.2	248.3		
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01					NA	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1	-0.32367	0.20044	806.2	1230.3		
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1	-0.25025	-0.02857	-6.3	-66.7		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1	0.18777	0.00000	-250.0	-250.0		
7639	2119.0	4193.0	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-50.4	-135.0	-0.03992	-0.03589	-43.1	-119.1
			C:137200 EDIC	345	147833 MARCY T1	345	1	1026					
			Open 137200 EDIC	345	147833 MARCY T1	345	1	0.01255	-0.32124	-583.2	-1263.9		
7640	2132.0	4206.0	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.07978	0.05945	294.6	421.3
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2	1031					
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2	0.33285	0.06109	286.5	416.7		
7642	2136.6	4210.5	L: 147827 MARCY765	765	147833 MARCY T1	345	1	909.9	1756.0	0.39602	0.38904	888.3	1719.5
			C:5+6_2				1818						
			Open 136778 LOWVILLE	115	136807 TAYLORVL	115	1	-0.15277	-0.02283	-73.7	-122.5		
			Open 136761 BU+LY+MO	115	137221 BOONVL	115	1	0.15277	0.02282	82.7	131.4		
			Open 136761 BU+LY+MO	115	136848 LYNDL MR	115	1					NA	
			Open 136758 BREMEN	115	136761 BU+LY+MO	115	1					NA	
			Open 136758 BREMEN	115	136807 TAYLORVL	115	1	0.11271	0.00000	-20.4	-20.4		
7643	2137.9	4211.8	L: 147836 ADRON B2	230	147840 MOSES W	230	1	-194.2	-440.0	-0.11497	-0.10035	-167.7	-382.2
			C:137200 EDIC	345	147833 MARCY T1	345	1	1026					
			Open 137200 EDIC	345	147833 MARCY T1	345	1	0.04550	-0.32124	-583.2	-1270.0		
7644	2138.0	4211.9	L: 147835 ADRON B1	230	147840 MOSES W	230	1	-194.2	-440.0	-0.11496	-0.10035	-167.7	-382.2
			C:137200 EDIC	345	147833 MARCY T1	345	1	1026					
			Open 137200 EDIC	345	147833 MARCY T1	345	1	0.04550	-0.32124	-583.2	-1270.0		
7645	2138.3	4212.2	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2	386.3	560.0	0.08123	0.06109	286.5	417.1
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028					
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	0.33891	0.05945	294.6	421.7		
7646	2139.4	4213.3	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-45.5	-135.0	-0.04181	-0.03589	-43.1	-119.9
			C:SER:MASS765/230_2				1691						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	0.01629	-0.36368	-150.7	-928.8		
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.02449	0.00000	0.1	0.1		
7647	2139.4	4213.3	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-45.5	-135.0	-0.04181	-0.03589	-43.1	-119.9
			C:SER:MASS765/230_1				1690						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	0.01629	-0.36368	-150.7	-928.8		
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.02449	0.00000	0.1	0.1		
7648	2139.5	4213.3	L: 136759 BRNS FLS	115	136771 FLAT RCK	115	1	-45.5	-135.0	-0.04181	-0.03589	-43.1	-119.9
			C:147838 MASS230B	230	147839 MOSES E	230	1	1322					
			Open 147838 MASS230B	230	147839 MOSES E	230	1	0.01629	-0.36368	-150.9	-928.9		
7652	2143.6	4217.5	L: 147852 PLAT T#3	115	147922 PLAT 115	115	3	-124.8	-302.0	-0.08265	0.00000	-84.6	-84.6
			C:HQ-NY-765-New				1877						
			Open 147827 MARCY765	765	147828 MASS 765	765	1					NA	
			Open 147828 MASS 765	765	180819 CHA-NY	765	1					NA	
			Open 147827 MARCY765	765	147833 MARCY T1	345	1	-0.11364	0.38904	888.3	1722.2		
			Open 147827 MARCY765	765	147833 MARCY T1	345	2	-0.11364	0.33832	774.3	1499.5		
			Open 156 MCY765SW	765	147827 MARCY765	765	1					NA	
			Open 147838 MASS230B	230	147839 MOSES E	230	1	-0.00000	-0.36368	-150.9	-930.5		
			Open 147828 MASS 765	765	147838 MASS230B	230	1					NA	
			Open 147837 MASS230A	230	147839 MOSES E	230	1	-0.10744	0.00000	-153.0	-153.0		
			Open 147828 MASS 765	765	147837 MASS230A	230	1					NA	
			Open 158 MS765SW2	765	147828 MASS 765	765	1					NA	
			Open 157 MS765SW1	765	147828 MASS 765	765	1					NA	
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						



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9505	2261.0	4334.2	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2	376.3	560.0	0.08123	0.22573	-0.12414	-361.7	-641.7
			C:137204 JORDNVLL	230	137210 PORTER 2	230	1					0.06109	286.5	424.6
			Open 137204 JORDNVLL	230	137210 PORTER 2	230	1							
9507	2261.7	4334.9	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1197.0	-1793.0	-0.26351	-0.33891	-0.05945	-265.1	-399.6
			C:130750 COOPC345	345	146754 MDTN TAP	345	1					-0.15629	-686.3	-1039.8
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1							
9516	2278.6	4351.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1101.0	1724.0	0.27342		0.20044	806.2	1263.0
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1							
9533	2314.2	4387.1	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1150.5	-1792.0	-0.27721	-0.32557	-0.22418	-905.3	-1416.1
			C:BUS:N.S._77									-0.22418	-905.3	-1424.0
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1					0.02076	-0.00751	264.2
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.28297	0.20044	806.2
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1					-0.06107	-0.02857	-6.3
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1					0.12967	0.00000	-250.0
9560	2338.2	4410.9	L: Interface 39 ZoneD-NE					43.1	258.0	0.09192		-0.00000	84.1	84.1
			C:147839 MOSES E	230	147840 MOSES W	230	1							
			Open 147839 MOSES E	230	147840 MOSES W	230	1							
9561	2338.2	4410.9	L: 100511 GRAND IS	115	147852 PLAT T#3	115	1	-43.1	-258.0	-0.09192		0.00000	-84.1	-84.1
			C:147839 MOSES E	230	147840 MOSES W	230	1							
			Open 147839 MOSES E	230	147840 MOSES W	230	1							
9562	2338.2	4410.9	L: Interface 40 NE-ZoneD					-43.1	-258.0	-0.09192		0.00000	-84.1	-84.1
			C:147839 MOSES E	230	147840 MOSES W	230	1							
			Open 147839 MOSES E	230	147840 MOSES W	230	1							
9565	2339.9	4412.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-881.3	-1380.0	-0.21311		-0.17184	-699.9	-1102.0
			C:SIN:170											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					0.18410	-0.22418	-905.3
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.16244	0.00000	91.0
			Open 137235 PORTER 1	115	147905 LLION	115	1					-0.00052	0.00000	40.8
9566	2340.0	4412.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-881.3	-1380.0	-0.21311		-0.17184	-699.9	-1102.0
			C:SIN:180											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					0.18410	-0.22418	-905.3
			Open 137235 PORTER 1	115	147905 LLION	115	1					-0.16249	0.00000	91.0
			Open 137235 PORTER 1	115	147905 LLION	115	1					-0.00035	0.00000	46.2
9589	2352.6	4425.3	L: 136764 COLTON	115	136775 HIGLEY	115	1	44.2	129.0	0.03605				
			Base Case											
9592	2356.9	4429.6	L: 136764 COLTON	115	136771 FLAT RCK	115	1	47.9	142.0	0.03992		0.03589	40.6	125.2
			C:137200 EDIC	345	147833 MARCY T1	345	1							
			Open 137200 EDIC	345	147833 MARCY T1	345	1							
9594	2357.3	4429.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1061.2	-1792.0	-0.31004		-0.22418	-905.3	-1433.7
			C:137200 EDIC	345	147833 MARCY T1	345	1							
			Open 137200 EDIC	345	147833 MARCY T1	345	1							
9608	2364.3	4436.9	L: 130753 FRASR345	345	137200 EDIC	345	1	-877.3	-1380.0	-0.21263		-0.17184	-699.9	-1106.2
			C:130750 COOPC345	345	147833 MARCY T1	345	1							
			Open 130750 COOPC345	345	147833 MARCY T1	345	1							
9611	2366.6	4439.2	L: 136764 COLTON	115	136771 FLAT RCK	115	1	43.0	142.0	0.04181		0.03589	40.6	125.5
			C:SIN:180											
			Open 147828 MASS 765	765	147838 MASS230B	230	1							
			Open 147838 MASS230B	230	147839 MOSES E	230	1					-0.01629	-0.36368	-150.7
9612	2366.6	4439.2	L: 136764 COLTON	115	136771 FLAT RCK	115	1	43.0	142.0	0.04181		0.03589	40.6	125.5
			C:SIN:180											
			Open 147828 MASS 765	765	147837 MASS230A	230	1							
			Open 147837 MASS230A	230	147839 MOSES E	230	1					-0.01629	-0.36368	-150.7
			Open 147838 MASS230B	230	147839 MOSES E	230	1					0.02449	0.00000	0.1
9613	2366.7	4439.2	L: 136764 COLTON	115	136771 FLAT RCK	115	1	43.0	142.0	0.04181		0.03589	40.6	125.5
			C:147838 MASS230B	230	147839 MOSES E	230	1							
			Open 147838 MASS230B	230	147839 MOSES E	230	1							
9665	2380.0	4452.5	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2	370.8	560.0	0.07951		0.06109	286.5	431.9
			C:BUS:RTRDM 77 BUS											
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1					0.35489	0.05945	294.6
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	3					0.10320	-0.02586	-196.2
			Open 114 RTDM77SW	230	137730 ROTRDM.2	230	1					-0.25030	0.00000	-0.0
9672	2381.7	4454.2	L: 136216 LTHSE HL	115	136218 MALLORY	115	1	19.6	145.0	0.05267		0.02213	33.2	85.9
			C:147839 MOSES E	230	147840 MOSES W	230	1							
			Open 147839 MOSES E	230	147840 MOSES W	230	1							
11283	2407.0	4479.3	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1165.4	-1793.0	-0.26074		-0.15629	-686.3	-1062.5
			C:SIN:180											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					0.08019	-0.12414	-361.7
12936	2434.5	4506.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1087.4	1724.0	0.26150		0.20044	806.2	1294.2



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				C:137453 N.SCOT99	345	147833	MARCY T1	345	1	1091									
				Open 137453 N.SCOT99	345	147833	MARCY T1	345	1										
16679	2622.1	4693.1	L:	Interface	72	MarcySouthN					1674.9	2725.0	0.40049						
				C:BUS:N.S._77						1714									
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
				Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1										
				Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA									
				Open 137200 EDIC	345	137452	N.SCOT77	345	1										
				Open 137450 ALPS345	345	137452	N.SCOT77	345	1										
				Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1										
16684	2623.7	4694.8	L:	136216 LTHSE HL	115	136755	BLACK RV	115	1		-26.1	-134.0	-0.04114						
				C:HQ-NY-765-New						1877									
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA									
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA									
				Open 147827 MARCY765	765	147833	MARCY T1	345	1										
				Open 147827 MARCY765	765	147833	MARCY T1	345	2										
				Open 156 MCV765SW	765	147827	MARCY765	765	1	NA									
				Open 147838 MASS230B	230	147839	MOSES E	230	1										
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA									
				Open 147837 MASS230A	230	147839	MOSES E	230	1										
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA									
				Open 158 MS765SW2	765	147828	MASS 765	765	1	NA									
				Open 157 MS765SW1	765	147828	MASS 765	765	1	NA									
				Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch									
				Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch									
				Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch									
				Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch									
16699	2628.6	4699.6	L:	Interface	72	MarcySouthN					1646.8	2725.0	0.41017						
				C:BUS:N.S._99						1715									
				Open 137453 N.SCOT99	345	147831	GILB 345	345	1										
				Open 137453 N.SCOT99	345	147833	MARCY T1	345	1										
				Open 137453 N.SCOT99	345	137516	N.SCOT1	115	1										
				Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2										
				Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1										
16703	2629.7	4700.7	L:	136216 LTHSE HL	115	136755	BLACK RV	115	1		-25.8	-134.0	-0.04114						
				C:SPS:MARCY_AT1_AT2						1696									
				Open 147827 MARCY765	765	147833	MARCY T1	345	1										
				Open 147827 MARCY765	765	147833	MARCY T1	345	2										
				Open 147827 MARCY765	765	147828	MASS 765	765	1	NA									
				Open 147828 MASS 765	765	180819	CHA-NY	765	1	NA									
				Open 156 MCV765SW	765	147827	MARCY765	765	1	NA									
				Open 147838 MASS230B	230	147839	MOSES E	230	1										
				Open 147828 MASS 765	765	147838	MASS230B	230	1	NA									
				Open 147837 MASS230A	230	147839	MOSES E	230	1										
				Open 147828 MASS 765	765	147837	MASS230A	230	1	NA									
16760	2642.8	4713.7	L:	137928 CHASES L	230	147835	ADRON B1	230	1		-183.1	-433.0	-0.09454						
				Base Case															
16807	2658.6	4729.5	L:	126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1242.8	-1725.0	-0.18136						
				C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184									
				Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1										
16810	2660.9	4731.7	L:	130750 COOPC345	345	147833	MARCY T1	345	1		-790.7	-1345.0	-0.20832						
				C:137200 EDIC	345	147833	MARCY T1	345	1	1026									
				Open 137200 EDIC	345	147833	MARCY T1	345	1										
16859	2674.8	4745.5	L:	136764 COLTON	115	136775	HIGLEY	115	1		46.7	159.0	0.04200						
				C:SER:MASS765/230_2						1691									
				Open 147828 MASS 765	765	147838	MASS230B	230	1										
				Open 147838 MASS230B	230	147839	MOSES E	230	1										
16860	2674.8	4745.5	L:	136764 COLTON	115	136775	HIGLEY	115	1		46.7	159.0	0.04200						
				C:SER:MASS765/230_1						1690									
				Open 147828 MASS 765	765	147837	MASS230A	230	1										
				Open 147837 MASS230A	230	147839	MOSES E	230	1										
16861	2674.8	4745.6	L:	136764 COLTON	115	136775	HIGLEY	115	1		46.6	159.0	0.04200						
				C:147838 MASS230B	230	147839	MOSES E	230	1	1322									
				Open 147838 MASS230B	230	147839	MOSES E	230	1										
16862	2674.8	4745.6	*L:	136764 COLTON	115	136775	HIGLEY	115	1		46.6	159.0	0.04200						
				C:147837 MASS230A	230	147839	MOSES E	230	1	1321									
				Open 147837 MASS230A	230	147839	MOSES E	230	1										
16903	2679.8	4750.6	L:	136750 ALCOA-NM	115	136767	DENNISON	115	1		57.2	222.0	0.06150						
				C:136757 N.O-BRG	115	136760	BRADY	115	1	957									
				Open 136757 N.O-BRG	115	136760	BRADY	115	1										
16909	2681.0	4751.8	L:	136750 ALCOA-NM	115	136767	DENNISON	115	1		57.1	222.0	0.06150						
				C:136757 N.O-BRG	115	136785	MCINTYRE	115	1	958									

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			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.24261	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	147905	ILION	115	1				0.00049	0.00000	46.2	46.2
17065	2700.4	4771.1	L: 130750	COOPC345	345	147833	MARCY T1	345	1	-821.9	-1345.0	-0.19371		-0.16283	-708.1	-1147.8
			C:BUS:N.S._99						1715							
			Open 137453	N.SCOT99	345	147831	GILB 345	345	1				-0.02833	0.00952	-356.7	-331.0
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.10747	-0.22418	-905.3	-1510.6
			Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1				0.00650	-0.00787	279.1	257.8
			Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2				0.03229	-0.20028	-880.3	-1421.1
			Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1				-0.00573	0.00000	2.1	2.1
17250	2709.5	4780.0	L: 137204	JORDNVLL	230	137730	ROTRDM.2	230	1	362.6	560.0	0.07286		0.05945	294.6	455.6
			C:SIN:170						1771							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.05982	-0.22418	-905.3	-1512.7
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.15245	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00030	0.00000	40.8	40.8
17251	2709.5	4780.0	L: 137204	JORDNVLL	230	137730	ROTRDM.2	230	1	362.6	560.0	0.07286		0.05945	294.6	455.6
			C:SIN:180						1772							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.05982	-0.22418	-905.3	-1512.7
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.15248	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	147905	ILION	115	1				0.00020	0.00000	46.2	46.2
20164	2718.1	4788.6	L: 136750	ALCOA-NM	115	136767	DENNISON	115	1	79.1	222.0	0.05258		0.05258	41.9	184.9
			C:136764	COLTON	115	136802	S COLTON	115	1	977						
			Open 136764	COLTON	115	136802	S COLTON	115	1				-0.45934	0.00000	-80.9	-80.9
20222	2719.8	4790.3	L: 137210	PORTER 2	230	137730	ROTRDM.2	230	2	356.4	560.0	0.07487		0.06109	286.5	452.6
			C:SIN:170						1771							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.06147	-0.22418	-905.3	-1515.0
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.15665	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	137246	VALLEY	115	1				0.00031	0.00000	40.8	40.8
20223	2719.8	4790.3	L: 137210	PORTER 2	230	137730	ROTRDM.2	230	2	356.4	560.0	0.07487		0.06109	286.5	452.6
			C:SIN:180						1772							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.06147	-0.22418	-905.3	-1515.0
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				0.15668	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	147905	ILION	115	1				0.00021	0.00000	46.2	46.2
20446	2737.5	4807.9	L: 146771	SHOEM138	138	146772	SHOEMTAP	138	1	-455.1	-585.0	-0.04744				
			Base Case													
20462	2741.1	4811.5	L: 137451	LEEDS 3	345	137452	N.SCOT77	345	1	-1003.0	-1724.0	-0.26302		-0.20162	-886.3	-1438.9
			C:BUS:N.S._99						1715							
			Open 137453	N.SCOT99	345	147831	GILB 345	345	1				-0.61539	0.00952	-356.7	-330.6
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				-0.38008	-0.22418	-905.3	-1519.8
			Open 137453	N.SCOT99	345	137516	N.SCOT1	115	1				-0.19326	-0.00787	279.1	257.5
			Open 137451	LEEDS 3	345	137453	N.SCOT99	345	2				0.71035	-0.20028	-880.3	-1429.3
			Open 137452	N.SCOT77	345	137453	N.SCOT99	345	1				-0.51976	0.00000	2.1	2.1
20470	2743.2	4813.5	L: 137532	RTRDM1	115	137730	ROTRDM.2	230	1	-253.4	-345.0	-0.03340				
			Base Case													
20471	2743.4	4813.8	L: 130750	COOPC345	345	147833	MARCY T1	345	1	-824.4	-1345.0	-0.18975		-0.16283	-708.1	-1154.8
			C:SIN:170						1771							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.12007	-0.22418	-905.3	-1520.3
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.08411	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	137246	VALLEY	115	1				-0.00021	0.00000	40.8	40.8
20472	2743.4	4813.8	L: 130750	COOPC345	345	147833	MARCY T1	345	1	-824.4	-1345.0	-0.18975		-0.16283	-708.1	-1154.8
			C:SIN:180						1772							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.12007	-0.22418	-905.3	-1520.3
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.08412	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	147905	ILION	115	1				-0.00014	0.00000	46.2	46.2
20501	2757.8	4828.1	L: 137532	RTRDM1	115	137730	ROTRDM.2	230	2	-290.0	-402.0	-0.04060		-0.03240	-246.0	-335.3
			C:SIN:170						1771							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.03659	-0.22418	-905.3	-1523.5
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.12034	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	137246	VALLEY	115	1				-0.00018	0.00000	40.8	40.8
20502	2757.8	4828.1	L: 137532	RTRDM1	115	137730	ROTRDM.2	230	2	-290.0	-402.0	-0.04060		-0.03240	-246.0	-335.3
			C:SIN:180						1772							
			Open 137453	N.SCOT99	345	147833	MARCY T1	345	1				0.03659	-0.22418	-905.3	-1523.5
			Open 137228	INGMS-CD	115	137886	INGHAM-E	115	1				-0.12036	0.00000	91.0	91.0
			Open 137235	PORTER 1	115	147905	ILION	115	1				-0.00012	0.00000	46.2	46.2
20513	2770.2	4840.4	L: 130750	COOPC345	345	147833	MARCY T1	345	1	-818.7	-1345.0	-0.18999		-0.16283	-708.1	-1159.2
			C:130753	FRASR345	345	137200	EDIC	345	1	267						
			Open 130753	FRASR345	345	137200	EDIC	345	1				0.15805	-0.17184	-699.9	-1175.9
20517	2772.2	4842.4	L: Interface	72 MarcySouthN						1638.4	2725.0	0.39196		0.33467	1408.0	2335.7
			C:137200	EDIC	345	137452	N.SCOT77	345	1	1024						
			Open 137200	EDIC	345	137452	N.SCOT77	345	1				0.28583	0.20044	806.2	1361.9
20518	2772.5	4842.7	L: 146754	MDTN TAP	345	146772	SHOEMTAP	138	1	536.8	746.0	0.07546		0.04744	455.1	586.7
			C:125001	ROCK TAV	345	146754	MDTN TAP	345	1	71						
			Open 125001	ROCK TAV	345	146754	MDTN TAP	345	1				-0.22573	-0.12414	-361.7	-705.9

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20647	2816.1	4886.1	L: 130750 COOPC345	345	147833 MARCY T1	345	1	-812.6	-1345.0	-0.18904	-0.16283	-708.1	-1166.6
			C:BUS:N.S._77				1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		0.02768	-0.02224	-100.5	-163.2	
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.03466	-0.00751	264.2	243.0	
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.13001	0.20044	806.2	1370.7	
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02540	-0.02857	-6.3	-86.7	
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.02509	0.00000	-250.0	-250.0	
22171	2831.7	4901.6	L: Interface	73	MarcySouthS			1623.6	2552.0	0.32787			
			Base Case										
22200	2834.6	4904.5	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-940.4	-1331.0	-0.13779			
			Base Case										
22238	2843.6	4913.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1219.8	-1725.0	-0.17765	-0.13779	-940.4	-1332.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186					
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.30400	-0.13113	-919.1	-1292.0	
22283	2857.8	4927.5	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	356.2	560.0	0.07133	0.05945	294.6	464.4
			C:SIN:160				1770						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.05927	0.20044	806.2	1379.1	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.15186	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	137246 VALLYE	115	1		0.00031	0.00000	40.8	40.8	
22284	2857.8	4927.5	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	356.2	560.0	0.07133	0.05945	294.6	464.4
			C:SIN:150				1769						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.05927	0.20044	806.2	1379.1	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.15188	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	147905 LLION	115	1		0.00020	0.00000	46.2	46.2	
22308	2868.3	4937.9	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2	349.8	560.0	0.07329	0.06109	286.5	461.7
			C:SIN:160				1770						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.06090	0.20044	806.2	1381.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.15604	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	137246 VALLYE	115	1		0.00031	0.00000	40.8	40.8	
22309	2868.3	4937.9	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2	349.8	560.0	0.07329	0.06109	286.5	461.7
			C:SIN:150				1769						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		0.06090	0.20044	806.2	1381.2	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		0.15607	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	147905 LLION	115	1		0.00021	0.00000	46.2	46.2	
22331	2878.9	4948.4	L: 136750 ALCOA-NM	115	136767 DENNISON	115	1	70.6	222.0	0.05258	0.05258	41.9	193.3
			C:136770 FIVE FLS	115	136802 S COLTON	115	1	986					
			Open 136770 FIVE FLS	115	136802 S COLTON	115	1		-0.45934	0.00000	-62.5	-62.5	
22350	2894.8	4964.3	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	358.5	560.0	0.06960	0.05945	294.6	466.6
			C:BUS:N.S._99				1715						
			Open 137453 N.SCOT99	345	147831 GILB	345	1		-0.02157	0.00952	-356.7	-329.2	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		-0.05698	-0.22418	-905.3	-1554.2	
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1		0.04886	-0.00787	279.1	256.3	
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2		0.01012	-0.20028	-880.3	-1460.1	
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.03032	0.00000	2.1	2.1	
22353	2896.8	4966.3	L: 136216 LTHSE HL	115	136768 E WTRTWN	115	1	-21.9	-145.0	-0.04251	-0.01922	-8.4	-64.1
			C:HQ-NY-765-New				1877						
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03202	0.38904	888.3	2015.2	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03202	0.33832	774.3	1754.3	
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36368	-150.9	-1204.4	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.02941	0.00000	-153.0	-153.0	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181419 CHAT G4	120	load to	357.0	MW dispatch						
22360	2902.7	4972.1	L: 136216 LTHSE HL	115	136768 E WTRTWN	115	1	-21.6	-145.0	-0.04251	-0.01922	-8.4	-64.2
			C:SPS:MARCY_AT1_AT2				1696						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1		-0.03202	0.38904	888.3	2017.5	
			Open 147827 MARCY765	765	147833 MARCY T1	345	2		-0.03202	0.33832	774.3	1756.3	
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1		-0.00000	-0.36368	-150.9	-1206.5	
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1		-0.02941	0.00000	-1360.8	-1360.8	





# TotalEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3758  
 First violation - 940.5 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3758 violations

Interface-1 Interface 5 TOTAL EAST Init.Flow= 6381.56 TDF= 1.0005

N	FCITC	IntFce1	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	940.5	7322.5	L: 146758 CHESTER C:SIN:440	138 146771 SHOEM138 1783	138 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
2	940.5	7322.5	L: 146758 CHESTER C:125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO	138 1 345 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
3	964.2	7346.3	L: 130761 AVOCA230 C:130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN	230 1 345 1	326.7	383.0	0.05840	0.04720	259.4	304.9	
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12039	-0.09310	-559.2	-649.0
4	976.3	7358.4	L: 130761 AVOCA230 C:SER:HCWC/NWES	230 131154 STONY RIDGE 1707	230 1	326.0	383.0	0.05842	0.04720	259.4	305.4	
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.00811	-0.02129	57.1	36.3
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12065	-0.09310	-559.2	-650.1
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00914	-0.01940	-44.7	-63.6
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						
5	995.5	7377.6	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230 131154 STONY RIDGE 1701	230 1	324.9	383.0	0.05838	0.04720	259.4	306.3	
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.04656	0.00478	-21.4	-16.6
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.11969	-0.09310	-559.2	-651.9
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00937	-0.01940	-44.7	-64.0
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						



TotalEast

				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
26	1796.8	8179.3	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1											
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
27	1798.0	8180.5	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
28	1803.3	8185.8	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
29	1813.3	8195.8	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
30	1819.9	8202.4	L:	130750 COOPC345	345	130753 FRASR345	345	1											
				C:130750 COOPC345	345	147833 MARCY T1	345	1	261										
				Open 130750 COOPC345	345	147833 MARCY T1	345	1											
31	1820.9	8203.4	L:	130764 MEYER230	230	134750 DAIRY230	230	1											
				Base Case															
32	1846.8	8229.3	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
33	1848.2	8230.7	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
34	1850.7	8233.3	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:SIN:440					1783										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
35	1850.7	8233.3	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
36	1865.1	8247.6	*L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
37	1889.6	8272.2	L:	130750 COOPC345	345	146754 MDTN TAP	345	1											
				C:125001 ROCK TAV	345	130750 COOPC345	345	2	70										
				Open 125001 ROCK TAV	345	130750 COOPC345	345	2											
39	1906.4	8288.9	L:	146758 CHESTER	138	146771 SHOEM138	138	1											
				C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71										
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1											
40	1910.3	8292.8	*L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
46	2055.8	8438.4	L:	130750 COOPC345	345	147833 MARCY T1	345	1											
				C:130750 COOPC345	345	130753 FRASR345	345	1	257										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
48	2100.0	8482.6	L:	130751 FRASR345	345	130753 FRASR345	345	1											

TotalEast

			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62487	0.17993	817.4	1204.9
63	2177.2	8559.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-536.8	-707.0	-0.07818		-0.04852	-455.1	-560.8
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
64	2177.7	8560.4	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.20070		0.12380	894.1	1163.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							
70	2202.5	8585.2	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	455.1	562.0	0.04852			805.2	1186.3
			Base Case											
82	2247.2	8629.9	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1143.5	-1724.0	-0.25830		-0.18532	-880.3	-1296.8
			C:BUS:N.S._77											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1							
92	2291.6	8674.4	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1165.4	-1793.0	-0.27386		-0.16423	-686.3	-1062.6
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
98	2294.9	8677.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:150											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	147905 ILION	115	1							
99	2294.9	8677.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:160											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	137246 VALLEY	115	1							
103	2310.4	8693.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.06533		-0.05537	-329.2	-457.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
104	2313.1	8695.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.06588		-0.05537	-329.2	-457.2
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
107	2331.3	8714.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.8	-540.0	-0.06530		-0.05537	-329.2	-458.3
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579 WARREN	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							

TotalEast

			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.09294	-0.25867	-506.9	-1121.0
124	2385.4	8768.2	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-886.3	-1331.0	-0.18644	
			Base Case											
132	2400.4	8783.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.25402	
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17898	806.2	1235.9
133	2403.9	8786.7	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-1391.9	-1912.0	-0.21634	
			C:BUS:N.S._99					1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62647	-0.02570	-356.7	-418.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.15668	-0.19254	-905.3	-1368.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.02957	-0.00321	279.1	271.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06746	-0.18532	-880.3	-1325.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.09502	0.00000	2.1	2.1
138	2416.9	8799.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-385.8	-540.0	-0.06380	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10706	0.07873	528.9	719.2
145	2431.9	8814.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18532	
			Base Case											
163	2461.8	8844.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-384.3	-540.0	-0.06326	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10706	-0.07369	-514.6	-696.0
167	2467.0	8849.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:180					1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19130	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00017	-0.00537	46.2	32.9
168	2467.0	8849.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19128	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00025	-0.00476	40.8	29.1
219	2537.1	8919.9	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09799	-0.15143	-305.2	-689.4
224	2540.8	8923.7	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-94.7	-173.0	-0.03083	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05027	0.17499	805.2	1249.8
246	2557.8	8940.7	L: 95976 STONYCRK	230	131122 WTHRS230	230	1				306.6	430.0	0.04823	
			Base Case											
258	2562.6	8945.4	L: 130750 COOPC345	345	130753 FRASR345	345	1				-985.3	-1703.0	-0.28007	
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39710	0.18318	175.8	645.2
294	2578.0	8960.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1101.0	1724.0	0.24167	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19254	-905.3	-1401.6
307	2582.2	8965.2	L: 130751 OAKDL345	345	130755 OAKDL345	345	1				227.2	478.0	0.05840	

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.12065	-0.09310	-559.2	-800.7			
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00914	-0.01940	-44.7	-95.0			
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
357	2598.1	8981.0	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-378.4	-540.0	-0.06219		-0.05537	-329.2	-473.0		
			C:130754 KINTI345	345	149000	ROCH	345	1	270									
			Open 130754 KINTI345	345	149000	ROCH	345	1						-0.05509	0.12380	894.1	1215.7	
512	2614.4	8997.3	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		325.4	478.0	0.05838		0.04720	259.9	383.2		
			C:SER:HC-WC_30&W-F_171						1701									
			Open 135277 FALCONER	115	200579	WARREN	115	1						0.04656	0.00478	-21.4	-8.9	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA									
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.11969	-0.09310	-559.2	-802.6	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA									
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						0.00937	-0.01940	-44.7	-95.4	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA									
1141	2619.7	9002.6	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		259.4	383.0	0.04720						
			Base Case															
2728	2669.6	9052.5	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-257.0	-383.0	-0.04720						
			Base Case															
3416	2673.8	9056.7	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1078.4	-1703.0	-0.23362		-0.20733	-915.5	-1469.8		
			C:137451 LEEDS 3	345	147831	GILB	345	1	1086									
			Open 137451 LEEDS 3	345	147831	GILB	345	1						0.16693	-0.15747	-975.7	-1396.7	
3470	2676.0	9058.9	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1		536.8	746.0	0.07818		0.04852	455.1	585.0		
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71									
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1										
3478	2676.5	9059.4	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1		-455.1	-585.0	-0.04852						
			Base Case															
3557	2688.9	9071.8	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1242.8	-1725.0	-0.17932		-0.13624	-940.4	-1306.8		
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184									
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1						0.31034	-0.13880	-974.5	-1347.7	
3563	2691.0	9074.0	L: 146758 CHESTER	138	146773	SGRLF138	138	1		178.7	317.0	0.05138		0.02846	115.6	192.2		
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71									
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1										
3575	2696.5	9079.5	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1150.5	-1792.0	-0.23790		-0.19254	-905.3	-1424.4		
			C:BUS:N.S._77						1714									
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1						-0.09423	-0.03612	-100.5	-197.9	
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1						0.02076	-0.00314	264.2	255.7	
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA									
			Open 137200 EDIC	345	137452	N.SCOT77	345	1						-0.28297	0.17898	806.2	1288.9	
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1						-0.06107	-0.03181	-6.3	-92.1	
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1						0.12967	0.00000	-250.0	-250.0	
3582	2697.7	9080.6	L: Interface	73	MarcySouthS					1623.6	2552.0	0.34416						
			Base Case															
3592	2699.7	9082.6	L: 137200 EDIC	345	137452	N.SCOT77	345	1		1087.4	1724.0	0.23581		0.17898	806.2	1289.4		
			C:BUS:N.S._99						1715									
			Open 137453 N.SCOT99	345	147831	GILB	345	1						-0.18542	-0.02570	-356.7	-426.1	
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1						0.28127	0.18254	806.2	1425.0	

TotalEast

			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3633	2725.5	9108.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.5	478.0	0.05667	0.04720	259.9	388.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
3669	2777.7	9160.7	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.06123	0.04628	294.6	423.1
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2						
3674	2784.0	9167.0	L: 130753 FRASR345	345	137200 EDIC	345	1	-861.5	-1380.0	-0.18623	-0.10375	-699.9	-988.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						
3676	2785.9	9168.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.05607	0.04720	259.9	391.3
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
3678	2791.4	9174.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	375.7	540.0	0.05884	0.04833	317.3	452.2
			C:SER:HCWC/NWES										
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3679	2792.9	9175.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.2	540.0	0.05829	0.04833	317.3	452.3
			C:130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
3680	2793.9	9176.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.2	-540.0	-0.05397	-0.05537	-329.2	-483.9
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3681	2798.4	9181.4	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-663.4	-927.0	-0.09420	-0.09310	-559.2	-819.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	2						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						



TotalEast

			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.06637	0.17499	805.2	1299.3		
3692	2833.4	9216.4	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		805.2	1301.0	0.17499			
			Base Case											
3697	2866.1	9249.1	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2		386.3	560.0	0.06061		0.04492	286.5 415.2
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028						
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		0.33891	0.04628	294.6	427.2		
3698	2866.8	9249.9	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-940.4	-1331.0	-0.13624			
			Base Case											
3699	2871.3	9254.4	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		528.9	755.0	0.07873			
			Base Case											
3700	2872.4	9255.4	L: 137451 LEEDS 3	345	147831 GILB 345	345	1		-975.7	-1428.0	-0.15747			
			Base Case											
3704	2876.0	9259.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1219.8	-1725.0	-0.17566		-0.13624	-940.4 -1332.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.30400	-0.12965	-919.1	-1292.0		
3708	2889.6	9272.6	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		402.5	560.0	0.05452		0.04628	294.6 428.3
			C:BUS:RTRDM 99 BUS					1713						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2		0.38700	0.04492	286.5	416.3		
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	2		0.13116	-0.02376	-246.0	-314.6		
			Open 102385 BRWAMP	230	137730 ROTRDM.2	230	1		0.25137	-0.02399	116.6	47.2		
			Open 115 RTDM99SW	230	137730 ROTRDM.2	230	1		-0.29189	0.00000	-0.0	-0.0		
3709	2892.1	9275.1	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-506.9	-1255.0	-0.25867			
			Base Case											
3719	2914.9	9298.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-583.1	-1380.0	-0.27339		-0.25867	-506.9 -1260.9
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.10759	-0.13683	-708.1	-1106.9		
3726	2925.7	9308.8	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.05676		0.04833	317.3 458.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10706	0.07873	528.9	759.3		
3728	2931.8	9314.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1		806.2	1331.0	0.17898			
			Base Case											
3730	2937.4	9320.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-585.4	-1380.0	-0.27052		-0.25867	-506.9 -1266.7
			C:BUS:N.S._77					1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00036	-0.03612	-100.5	-206.6		
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.01971	-0.00314	264.2	255.0		
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.07055	0.17898	806.2	1332.0		
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02581	-0.03181	-6.3	-99.7		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.10798	0.00000	-250.0	-250.0		
3731	2944.4	9327.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27254		-0.25867	-506.9 -1268.5
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07202	-0.19254	-905.3	-1472.2		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.06015	0.00000	91.0	91.0		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00090	-0.00476	40.8	26.8		
3732	2944.4	9327.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27253		-0.25867	-506.9 -1268.5
			C:STN:180					1772						

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			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.02850	-0.02129	57.1	-6.3	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10798	-0.09310	-559.2	-836.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00736	-0.01940	-44.7	-102.5	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
3749	2981.1	9364.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		366.5	540.0	0.05820		0.04823	306.6	450.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10706	-0.09310	-559.2	-836.8	
3750	2981.2	9364.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		372.4	540.0	0.05622		0.04833	317.3	461.4
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10706	-0.07369	-514.6	-734.2	
3752	2993.2	9376.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:160					1770							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.05920	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00090	-0.00476	40.8	26.6	
3753	2993.2	9376.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:150					1769							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.05912	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00060	-0.00537	46.2	30.1	

# CentralEast

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3758  
 First violation - 940.5 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3758 violations

Interface-1 Interface 6 CENTRAL EAST Init.Flow= 2408.32 TDF= 0.4729

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	940.5	2853.1	L: 146758 CHESTER C:SIN:440	138 146771 SHOEM138 1783	138 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
2	940.5	2853.1	L: 146758 CHESTER C:125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO	138 1 345 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
3	964.2	2864.3	L: 130761 AVOCA230 C:130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN	230 1 345 1	326.7	383.0	0.05840	0.04720	259.4	304.9	
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12039	-0.09310	-559.2	-649.0
4	976.3	2870.0	L: 130761 AVOCA230 C:SER:HCWC/NWES	230 131154 STONY RIDGE 1707	230 1	326.0	383.0	0.05842	0.04720	259.4	305.4	
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.00811	-0.02129	57.1	36.3
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12065	-0.09310	-559.2	-650.1
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00914	-0.01940	-44.7	-63.6
			Open 95593 CHERYFLT	345 95594 CHERYWND	34.5 1	NA						
5	995.5	2879.1	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230 131154 STONY RIDGE 1701	230 1	324.9	383.0	0.05838	0.04720	259.4	306.3	
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.04656	0.00478	-21.4	-16.6
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.11969	-0.09310	-559.2	-651.9
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00937	-0.01940	-44.7	-64.0
			Open 95593 CHERYFLT	345 95594 CHERYWND	34.5 1	NA						



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			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
26	1796.8	3258.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1												
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
27	1798.0	3258.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
28	1803.3	3261.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
29	1813.3	3265.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
30	1819.9	3268.9	L: 130750 COOPC345	345	130753 FRASR345	345	1												
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1												
31	1820.9	3269.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1												
			Base Case																
32	1846.8	3281.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
33	1848.2	3282.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
34	1850.7	3283.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
35	1850.7	3283.5	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
36	1865.1	3290.3	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
37	1889.6	3301.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1												
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	70											
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2												
39	1906.4	3309.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1												
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71											
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1												
40	1910.3	3311.7	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
46	2055.8	3380.5	L: 130750 COOPC345	345	147833 MARCY T1	345	1												
			C:130750 COOPC345	345	130753 FRASR345	345	1	257											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
48	2100.0	3401.0	L: 130751 FRASR345	345	130753 FRASR345	345	1												

CentralEast

			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62487	0.17993	817.4	1204.9		
63	2177.2	3437.9	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1				-536.8	-707.0	-0.07818	-0.04852	-455.1	-560.8
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1		71							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1									
64	2177.7	3438.1	L: 130754 KINTI345	345	149000 ROCH 345	345	1				1247.9	1685.0	0.20070	0.12380	894.1	1163.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1		1317							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1									
70	2202.5	3449.9	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1				455.1	562.0	0.04852		805.2	1186.3
			Base Case													
82	2247.2	3471.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-1143.5	-1724.0	-0.25830	-0.18532	-880.3	-1296.8
			C:BUS:N.S._77						1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1									
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1									
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1									
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1									
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1									
92	2291.6	3492.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2				-1165.4	-1793.0	-0.27386	-0.16423	-686.3	-1062.6
			C:SER:CMT34&MTR34						1692							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1									
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1									
98	2294.9	3493.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1206.1	-1792.0	-0.25529	-0.19254	-905.3	-1347.1
			C:SIN:150						1769							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1									
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1									
			Open 137235 PORTER 1	115	147905 ILION	115	1									
99	2294.9	3493.6	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1206.1	-1792.0	-0.25529	-0.19254	-905.3	-1347.1
			C:SIN:160						1770							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1									
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1									
			Open 137235 PORTER 1	115	137246 VALLEY	115	1									
103	2310.4	3500.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-389.1	-540.0	-0.06533	-0.05537	-329.2	-457.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1		278							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1									
104	2313.1	3502.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-387.6	-540.0	-0.06588	-0.05537	-329.2	-457.2
			C:SER:HCWC/NWES						1707							
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1									
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1									
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1									
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA							
107	2331.3	3510.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-387.8	-540.0	-0.06530	-0.05537	-329.2	-458.3
			C:SER:HC-WC_30&W-F_171						1701							
			Open 135277 FALCONER	115	200579 WARREN	115	1									
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1									

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			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.09294	-0.25867	-506.9	-1121.0
124	2385.4	3536.4	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-886.3	-1331.0	-0.18644	
			Base Case											
132	2400.4	3543.5	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.25402	
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17898	806.2	1235.9
133	2403.9	3545.1	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-1391.9	-1912.0	-0.21634	
			C:BUS:N.S._99					1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62647	-0.02570	-356.7	-418.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.15668	-0.19254	-905.3	-1368.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.02957	-0.00321	279.1	271.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06746	-0.18532	-880.3	-1325.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.09502	0.00000	2.1	2.1
138	2416.9	3551.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-385.8	-540.0	-0.06380	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10706	0.07873	528.9	719.2
145	2431.9	3558.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18532	
			Base Case											
163	2461.8	3572.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-384.3	-540.0	-0.06326	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10706	-0.07369	-514.6	-696.0
167	2467.0	3574.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:180					1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19130	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00017	-0.00537	46.2	32.9
168	2467.0	3574.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19128	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00025	-0.00476	40.8	29.1
219	2537.1	3608.1	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09799	-0.15143	-305.2	-689.4
224	2540.8	3609.9	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-94.7	-173.0	-0.03083	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05027	0.17499	805.2	1249.8
246	2557.8	3617.9	L: 95976 STONYCRK	230	131122 WTHRS230	230	1				306.6	430.0	0.04823	
			Base Case											
258	2562.6	3620.2	L: 130750 COOPC345	345	130753 FRASR345	345	1				-985.3	-1703.0	-0.28007	
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39710	0.18318	175.8	645.2
294	2578.0	3627.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1101.0	1724.0	0.24167	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19254	-905.3	-1401.6
307	2582.2	3628.5	L: 130751 OAKDL345	345	130755 OAKDL345	345	1				227.2	478.0	0.05840	

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.12065	-0.09310	-559.2	-800.7		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00914	-0.01940	-44.7	-95.0		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
357	2598.1	3636.9	L: 130764 MEYER230	230	134750	DAIRY230	230	1				-378.4	-540.0	-0.06219	-0.05537	-329.2	-473.0
			C:130754 KINTI345	345	149000	ROCH	345	1	270								
			Open 130754 KINTI345	345	149000	ROCH	345	1									
512	2614.4	3644.6	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1				325.4	478.0	0.05838	0.04720	259.9	383.2
			C:SER:HC-WC_30&W-F_171						1701								
			Open 135277 FALCONER	115	200579	WARREN	115	1									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA								
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1									
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1									
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
1141	2619.7	3647.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1				259.4	383.0	0.04720			
			Base Case														
2728	2669.6	3670.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1				-257.0	-383.0	-0.04720			
			Base Case														
3416	2673.8	3672.8	L: 130750 COOPC345	345	130753	FRASR345	345	1				-1078.4	-1703.0	-0.23362	-0.20733	-915.5	-1469.8
			C:137451 LEEDS 3	345	147831	GILB	345	1	1086								
			Open 137451 LEEDS 3	345	147831	GILB	345	1									
3470	2676.0	3673.8	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1				536.8	746.0	0.07818	0.04852	455.1	585.0
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3478	2676.5	3674.0	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1				-455.1	-585.0	-0.04852			
			Base Case														
3557	2688.9	3679.9	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-1242.8	-1725.0	-0.17932	-0.13624	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184								
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1									
3563	2691.0	3680.9	L: 146758 CHESTER	138	146773	SGRLF138	138	1				178.7	317.0	0.05138	0.02846	115.6	192.2
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3575	2696.5	3683.5	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1				-1150.5	-1792.0	-0.23790	-0.19254	-905.3	-1424.4
			C:BUS:N.S._77						1714								
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1									
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1									
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA								
			Open 137200 EDIC	345	137452	N.SCOT77	345	1									
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1									
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1									
3582	2697.7	3684.0	L: Interface 73 MarcySouthS									1623.6	2552.0	0.34416			
			Base Case														
3592	2699.7	3685.0	L: 137200 EDIC	345	137452	N.SCOT77	345	1				1087.4	1724.0	0.23581	0.17898	806.2	1289.4
			C:BUS:N.S._99						1715								
			Open 137453 N.SCOT99	345	147831	GILB	345	1									
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1									



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			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3633	2725.5	3697.2	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.5	478.0	0.05667	0.04720	259.9	388.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
3669	2777.7	3721.9	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.06123	0.04628	294.6	423.1
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2						
3674	2784.0	3724.9	L: 130753 FRASR345	345	137200 EDIC	345	1	-861.5	-1380.0	-0.18623	-0.10375	-699.9	-988.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						
3676	2785.9	3725.7	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.05607	0.04720	259.9	391.3
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
3678	2791.4	3728.4	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	375.7	540.0	0.05884	0.04833	317.3	452.2
			C:SER:HCWC/NWES										
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3679	2792.9	3729.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.2	540.0	0.05829	0.04833	317.3	452.3
			C:130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
3680	2793.9	3729.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.2	-540.0	-0.05397	-0.05537	-329.2	-483.9
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3681	2798.4	3731.7	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-663.4	-927.0	-0.09420	-0.09310	-559.2	-819.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	2						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.06637	0.17499	805.2	1299.3		
3692	2833.4	3748.2	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		805.2	1301.0	0.17499			
			Base Case											
3697	2866.1	3763.7	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2		386.3	560.0	0.06061		0.04492	286.5 415.2
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028						
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		0.33891	0.04628	294.6	427.2		
3698	2866.8	3764.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-940.4	-1331.0	-0.13624			
			Base Case											
3699	2871.3	3766.2	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		528.9	755.0	0.07873			
			Base Case											
3700	2872.4	3766.7	L: 137451 LEEDS 3	345	147831 GILB 345	345	1		-975.7	-1428.0	-0.15747			
			Base Case											
3704	2876.0	3768.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1219.8	-1725.0	-0.17566		-0.13624	-940.4 -1332.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.30400	-0.12965	-919.1	-1292.0		
3708	2889.6	3774.8	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		402.5	560.0	0.05452		0.04628	294.6 428.3
			C:BUS:RTRDM 99 BUS					1713						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2		0.38700	0.04492	286.5	416.3		
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	2		0.13116	-0.02376	-246.0	-314.6		
			Open 102385 BRWAMP	230	137730 ROTRDM.2	230	1		0.25137	-0.02399	116.6	47.2		
			Open 115 RTDM99SW	230	137730 ROTRDM.2	230	1		-0.29189	0.00000	-0.0	-0.0		
3709	2892.1	3776.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-506.9	-1255.0	-0.25867			
			Base Case											
3719	2914.9	3786.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-583.1	-1380.0	-0.27339		-0.25867	-506.9 -1260.9
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.10759	-0.13683	-708.1	-1106.9		
3726	2925.7	3791.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.05676		0.04833	317.3 458.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10706	0.07873	528.9	759.3		
3728	2931.8	3794.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1		806.2	1331.0	0.17898			
			Base Case											
3730	2937.4	3797.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-585.4	-1380.0	-0.27052		-0.25867	-506.9 -1266.7
			C:BUS:N.S._77					1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00036	-0.03612	-100.5	-206.6		
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.01971	-0.00314	264.2	255.0		
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.07055	0.17898	806.2	1332.0		
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02581	-0.03181	-6.3	-99.7		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.10798	0.00000	-250.0	-250.0		
3731	2944.4	3800.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27254		-0.25867	-506.9 -1268.5
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07202	-0.19254	-905.3	-1472.2		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.06015	0.00000	91.0	91.0		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00090	-0.00476	40.8	26.8		
3732	2944.4	3800.7	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27253		-0.25867	-506.9 -1268.5
			C:STN:100					1772						

CentralEast

			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.02850	-0.02129	57.1	-6.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10798	-0.09310	-559.2	-836.5
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00736	-0.01940	-44.7	-102.5
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3749	2981.1	3818.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		366.5	540.0	0.05820	0.04823	306.6	450.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10706	-0.09310	-559.2	-836.8
3750	2981.2	3818.1	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		372.4	540.0	0.05622	0.04833	317.3	461.4
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.10706	-0.07369	-514.6	-734.2
3752	2993.2	3823.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114	-0.25867	-506.9	-1281.2
			C:SIN:160					1770						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.05920	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00090	-0.00476	40.8	26.6
3753	2993.2	3823.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114	-0.25867	-506.9	-1281.2
			C:SIN:150					1769						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.05912	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00060	-0.00537	46.2	30.1

# CE+Fraser-Gilboa

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3758  
 First violation - 940.5 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3758 violations

Interface-1 Interface 7 CE+FRAS-GILB Init.Flow= 2584.16 TDF= 0.6561

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	940.5	3201.2	L: 146758 CHESTER C:SIN:440	138 146771 SHOEM138 1783	138 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
2	940.5	3201.2	L: 146758 CHESTER C:125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO	138 1 345 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
3	964.2	3216.7	L: 130761 AVOCA230 C:130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN	230 1 345 1	326.7	383.0	0.05840	0.04720	259.4	304.9	
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12039	-0.09310	-559.2	-649.0
4	976.3	3224.7	L: 130761 AVOCA230 C:SER:HCWC/NWES	230 131154 STONY RIDGE 1707	230 1	326.0	383.0	0.05842	0.04720	259.4	305.4	
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.00811	-0.02129	57.1	36.3
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12065	-0.09310	-559.2	-650.1
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00914	-0.01940	-44.7	-63.6
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						
5	995.5	3237.3	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230 131154 STONY RIDGE 1701	230 1	324.9	383.0	0.05838	0.04720	259.4	306.3	
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.04656	0.00478	-21.4	-16.6
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.11969	-0.09310	-559.2	-651.9
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00937	-0.01940	-44.7	-64.0
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						



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			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
26	1796.8	3763.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1												
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
27	1798.0	3763.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
28	1803.3	3767.3	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
29	1813.3	3773.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
30	1819.9	3778.1	L: 130750 COOPC345	345	130753 FRASR345	345	1												
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1												
31	1820.9	3778.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1												
			Base Case																
32	1846.8	3795.8	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
33	1848.2	3796.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
34	1850.7	3798.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
35	1850.7	3798.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
36	1865.1	3807.8	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
37	1889.6	3823.9	L: 130750 COOPC345	345	146754 MDTN TAP	345	1												
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	70											
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2												
39	1906.4	3834.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1												
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71											
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1												
40	1910.3	3837.4	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
46	2055.8	3932.9	L: 130750 COOPC345	345	147833 MARCY T1	345	1												
			C:130750 COOPC345	345	130753 FRASR345	345	1	257											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
48	2100.0	3860.5	L: 130751 FRASR345	345	130753 FRASR345	345	1												

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			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62487	0.17993	817.4	1204.9	
63	2177.2	4012.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-536.8	-707.0	-0.07818		-0.04852	-455.1	-560.8	
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1				71				
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					0.22573	-0.13141	-361.7	-647.8
64	2177.7	4012.9	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.20070		0.12380	894.1	1163.7	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1				1317				
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1					0.43946	0.17499	805.2	1186.3
70	2202.5	4029.1	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	455.1	562.0	0.04852					
			Base Case												
82	2247.2	4058.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1143.5	-1724.0	-0.25830		-0.18532	-880.3	-1296.8	
			C:BUS:N.S._77								1714				
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1					0.60286	-0.03612	-100.5	-181.7
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1					0.39246	-0.00314	264.2	257.1
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.32367	0.17898	806.2	1208.5
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1					-0.25025	-0.03181	-6.3	-77.8
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1					0.18777	0.00000	-250.0	-250.0
92	2291.6	4087.6	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1165.4	-1793.0	-0.27386		-0.16423	-686.3	-1062.6	
			C:SER:CMT34&MTR34								1692				
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1					-0.55071	0.17993	817.4	1229.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1					0.08019	-0.13141	-361.7	-662.8
98	2294.9	4089.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1	
			C:SIN:150								1769				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35063	0.17898	806.2	1217.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19964	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1					-0.00016	-0.00537	46.2	33.8
99	2294.9	4089.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1	
			C:SIN:160								1770				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.35063	0.17898	806.2	1217.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.19962	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					-0.00024	-0.00476	40.8	29.9
103	2310.4	4099.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.06533		-0.05537	-329.2	-457.1	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1				278				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10706	-0.09310	-559.2	-774.3
104	2313.1	4101.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.06588		-0.05537	-329.2	-457.2	
			C:SER:HCWC/NWES								1707				
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1					0.02850	-0.02129	57.1	7.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10798	-0.09310	-559.2	-774.6
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1					-0.00736	-0.01940	-44.7	-89.6
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA							
107	2331.3	4113.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.8	-540.0	-0.06530		-0.05537	-329.2	-458.3	
			C:SER:HC-WC_30&W-F_171								1701				
			Open 135277 FALCONER	115	200579 WARREN	115	1					-0.03156	0.00478	-21.4	-10.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.10650	-0.09310	-559.2	-774.3

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			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.09294	-0.25867	-506.9	-1121.0
124	2385.4	4149.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-886.3	-1331.0	-0.18644	
			Base Case											
132	2400.4	4159.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.25402	
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17898	806.2	1235.9
133	2403.9	4161.3	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-1391.9	-1912.0	-0.21634	
			C:BUS:N.S._99					1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62647	-0.02570	-356.7	-418.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.15668	-0.19254	-905.3	-1368.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.02957	-0.00321	279.1	271.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06746	-0.18532	-880.3	-1325.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.09502	0.00000	2.1	2.1
138	2416.9	4169.8	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-385.8	-540.0	-0.06380	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10706	0.07873	528.9	719.2
145	2431.9	4179.7	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18532	
			Base Case											
163	2461.8	4199.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-384.3	-540.0	-0.06326	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10706	-0.07369	-514.6	-696.0
167	2467.0	4202.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:180					1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19130	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00017	-0.00537	46.2	32.9
168	2467.0	4202.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19128	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00025	-0.00476	40.8	29.1
219	2537.1	4248.7	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09799	-0.15143	-305.2	-689.4
224	2540.8	4251.1	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-94.7	-173.0	-0.03083	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05027	0.17499	805.2	1249.8
246	2557.8	4262.3	L: 95976 STONYCRK	230	131122 WTHRS230	230	1				306.6	430.0	0.04823	
			Base Case											
258	2562.6	4265.4	L: 130750 COOPC345	345	130753 FRASR345	345	1				-985.3	-1703.0	-0.28007	
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39710	0.18318	175.8	645.2
294	2578.0	4275.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1101.0	1724.0	0.24167	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19254	-905.3	-1401.6
307	2582.2	4278.4	L: 130751 OAKDL345	345	130755 OAKDL345	345	1				227.2	478.0	0.05840	



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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.12065	-0.09310	-559.2	-800.7		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00914	-0.01940	-44.7	-95.0		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
357	2598.1	4288.7	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-378.4	-540.0	-0.06219		-0.05537	-329.2	-473.0	
			C:130754 KINTI345	345	149000	ROCH	345	1	270								
			Open 130754 KINTI345	345	149000	ROCH	345	1						-0.05509	0.12380	894.1	1215.7
512	2614.4	4299.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		325.4	478.0	0.05838		0.04720	259.9	383.2	
			C:SER:HC-WC_30&W-F_171						1701								
			Open 135277 FALCONER	115	200579	WARREN	115	1						0.04656	0.00478	-21.4	-8.9
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA								
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1						-0.11969	-0.09310	-559.2	-802.6
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1						0.00937	-0.01940	-44.7	-95.4
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
1141	2619.7	4302.8	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1		259.4	383.0	0.04720					
			Base Case														
2728	2669.6	4335.6	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-257.0	-383.0	-0.04720					
			Base Case														
3416	2673.8	4338.4	L: 130750 COOPC345	345	130753	FRASR345	345	1		-1078.4	-1703.0	-0.23362		-0.20733	-915.5	-1469.8	
			C:137451 LEEDS 3	345	147831	GILB	345	1	1086								
			Open 137451 LEEDS 3	345	147831	GILB	345	1						0.16693	-0.15747	-975.7	-1396.7
3470	2676.0	4339.8	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1		536.8	746.0	0.07818		0.04852	455.1	585.0	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3478	2676.5	4340.1	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1		-455.1	-585.0	-0.04852					
			Base Case														
3557	2688.9	4348.2	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1242.8	-1725.0	-0.17932		-0.13624	-940.4	-1306.8	
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184								
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1						0.31034	-0.13880	-974.5	-1347.7
3563	2691.0	4349.7	L: 146758 CHESTER	138	146773	SGRLF138	138	1		178.7	317.0	0.05138		0.02846	115.6	192.2	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1						-0.17442	-0.13141	-361.7	-715.3
3575	2696.5	4353.3	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1		-1150.5	-1792.0	-0.23790		-0.19254	-905.3	-1424.4	
			C:BUS:N.S._77						1714								
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1						-0.09423	-0.03612	-100.5	-197.9
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1						0.02076	-0.00314	264.2	255.7
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA								
			Open 137200 EDIC	345	137452	N.SCOT77	345	1						-0.28297	0.17898	806.2	1288.9
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1						-0.06107	-0.03181	-6.3	-92.1
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1						0.12967	0.00000	-250.0	-250.0
3582	2697.7	4354.0	L: Interface 73 MarcySouthS							1623.6	2552.0	0.34416					
			Base Case														
3592	2699.7	4355.3	L: 137200 EDIC	345	137452	N.SCOT77	345	1		1087.4	1724.0	0.23581		0.17898	806.2	1289.4	
			C:BUS:N.S._99						1715								
			Open 137453 N.SCOT99	345	147831	GILB	345	1						-0.18542	-0.02570	-356.7	-426.1
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1						0.28127	0.18254	806.2	1288.9

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3633	2725.5	4372.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.5	478.0	0.05667	0.04720	259.9	388.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
3669	2777.7	4406.5	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.06123	0.04628	294.6	423.1
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2						
3674	2784.0	4410.7	L: 130753 FRASR345	345	137200 EDIC	345	1	-861.5	-1380.0	-0.18623	-0.10375	-699.9	-988.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1						
3676	2785.9	4411.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.05607	0.04720	259.9	391.3
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
3678	2791.4	4415.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	375.7	540.0	0.05884	0.04833	317.3	452.2
			C:SER:HCWC/NWES										
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3679	2792.9	4416.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.2	540.0	0.05829	0.04833	317.3	452.3
			C:130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
3680	2793.9	4417.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.2	-540.0	-0.05397	-0.05537	-329.2	-483.9
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	130768 WATRC230	230	1						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1						
3681	2798.4	4420.1	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-663.4	-927.0	-0.09420	-0.09310	-559.2	-819.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1						
			Open 147827 MARCY765	765	147833 MARCY T1	345	2						
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1						
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						

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			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317								
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1		0.06637	0.17499	805.2	1299.3				
3692	2833.4	4443.1	L: 147834 NIAG 345	345	149000 ROCH 345	345	1				805.2	1301.0	0.17499			
			Base Case													
3697	2866.1	4464.5	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2				386.3	560.0	0.06061	0.04492	286.5	415.2
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028								
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		0.33891	0.04628	294.6	427.2				
3698	2866.8	4465.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-940.4	-1331.0	-0.13624			
			Base Case													
3699	2871.3	4468.0	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1				528.9	755.0	0.07873			
			Base Case													
3700	2872.4	4468.6	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-975.7	-1428.0	-0.15747			
			Base Case													
3704	2876.0	4471.0	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2				-1219.8	-1725.0	-0.17566	-0.13624	-940.4	-1332.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186								
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.30400	-0.12965	-919.1	-1292.0				
3708	2889.6	4479.9	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1				402.5	560.0	0.05452	0.04628	294.6	428.3
			C:BUS:RTRDM 99 BUS					1713								
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2		0.38700	0.04492	286.5	416.3				
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	2		0.13116	-0.02376	-246.0	-314.6				
			Open 102385 BRWAMP	230	137730 ROTRDM.2	230	1		0.25137	-0.02399	116.6	47.2				
			Open 115 RTDM99SW	230	137730 ROTRDM.2	230	1		-0.29189	0.00000	-0.0	-0.0				
3709	2892.1	4481.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-506.9	-1255.0	-0.25867			
			Base Case													
3719	2914.9	4496.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-583.1	-1380.0	-0.27339	-0.25867	-506.9	-1260.9
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261								
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.10759	-0.13683	-708.1	-1106.9				
3726	2925.7	4503.6	L: 131122 WTHRS230	230	134750 DAIRY230	230	1				373.9	540.0	0.05676	0.04833	317.3	458.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35								
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10706	0.07873	528.9	759.3				
3728	2931.8	4507.7	L: 137200 EDIC	345	137452 N.SCOT77	345	1				806.2	1331.0	0.17898			
			Base Case													
3730	2937.4	4511.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-585.4	-1380.0	-0.27052	-0.25867	-506.9	-1266.7
			C:BUS:N.S._77					1714								
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00036	-0.03612	-100.5	-206.6				
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.01971	-0.00314	264.2	255.0				
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01				NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.07055	0.17898	806.2	1332.0				
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02581	-0.03181	-6.3	-99.7				
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.10798	0.00000	-250.0	-250.0				
3731	2944.4	4515.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-577.5	-1380.0	-0.27254	-0.25867	-506.9	-1268.5
			C:SIN:170					1771								
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07202	-0.19254	-905.3	-1472.2				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.06015	0.00000	91.0	91.0				
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00090	-0.00476	40.8	26.8				
3732	2944.4	4515.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1				-577.5	-1380.0	-0.27253	-0.25867	-506.9	-1268.5
			C:STN:180					1772								

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			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.02850	-0.02129	57.1	-6.3	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10798	-0.09310	-559.2	-836.5	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00736	-0.01940	-44.7	-102.5	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3749	2981.1	4540.0	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		366.5	540.0	0.05820		0.04823	306.6	450.4
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1								
3750	2981.2	4540.0	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		372.4	540.0	0.05622		0.04833	317.3	461.4
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1								
3752	2993.2	4547.9	L: 130753 FRASR345	345	130755	OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:160						1770							
			Open 137200 EDIC	345	137452	N.SCOT77	345	1								
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1								
			Open 137235 PORTER 1	115	137246	VALLEY	115	1								
3753	2993.2	4547.9	L: 130753 FRASR345	345	130755	OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:150						1769							
			Open 137200 EDIC	345	137452	N.SCOT77	345	1								
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1								
			Open 137235 PORTER 1	115	147905	ILION	115	1								

# CE\_Group

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3758  
 First violation - 940.5 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3758 violations

Interface-1 Interface 8 CE-GROUP Init.Flow= 4087.80 TDF= 1.0002

N	FCITC	IntFce1	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	940.5	5028.5	L: 146758 CHESTER C:SIN:440	138 146771 SHOEM138 1783	138 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
2	940.5	5028.5	L: 146758 CHESTER C:125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO	138 1 345 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
3	964.2	5052.2	L: 130761 AVOCA230 C:130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN	230 1 345 1	326.7	383.0	0.05840	0.04720	259.4	304.9	
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12039	-0.09310	-559.2	-649.0
4	976.3	5064.3	L: 130761 AVOCA230 C:SER:HCWC/NWES	230 131154 STONY RIDGE 1707	230 1	326.0	383.0	0.05842	0.04720	259.4	305.4	
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.00811	-0.02129	57.1	36.3
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12065	-0.09310	-559.2	-650.1
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00914	-0.01940	-44.7	-63.6
			Open 95593 CHERYFLT	345 95594 CHERYWND	34.5 1	NA						
5	995.5	5083.6	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230 131154 STONY RIDGE 1701	230 1	324.9	383.0	0.05838	0.04720	259.4	306.3	
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.04656	0.00478	-21.4	-16.6
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.11969	-0.09310	-559.2	-651.9
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00937	-0.01940	-44.7	-64.0
			Open 95593 CHERYFLT	345 95594 CHERYWND	34.5 1	NA						



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				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
26	1796.8	5885.1	L:	135862 MUMFORD1	115	135866 NLEROYTA	115	1											
				C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317										
				Open 147834 NIAG 345	345	149000 ROCH 345	345	1											
27	1798.0	5886.2	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
28	1803.3	5891.5	L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
29	1813.3	5901.5	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130755 OAKDL345	345	131128 LAPEER	345	1	274										
				Open 130755 OAKDL345	345	131128 LAPEER	345	1											
30	1819.9	5908.1	L:	130750 COOPC345	345	130753 FRASR345	345	1											
				C:130750 COOPC345	345	147833 MARCY T1	345	1	261										
				Open 130750 COOPC345	345	147833 MARCY T1	345	1											
31	1820.9	5909.1	L:	130764 MEYER230	230	134750 DAIRY230	230	1											
				Base Case															
32	1846.8	5935.0	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459										
				Open 131128 LAPEER	345	136153 LAFAYTTE	345	1											
33	1848.2	5936.5	L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:130774 BATH 115	115	131347 HOWARD	115	1	296										
				Open 130774 BATH 115	115	131347 HOWARD	115	1											
34	1850.7	5939.0	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:SIN:440					1783										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
35	1850.7	5939.0	L:	146754 MDTN TAP	345	146772 SHOEMTAP	138	1											
				C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69										
				Open 125001 ROCK TAV	345	126297 RAMAPO	345	1											
36	1865.1	5953.4	*L:	130761 AVOCA230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
37	1889.6	5977.9	L:	130750 COOPC345	345	146754 MDTN TAP	345	1											
				C:125001 ROCK TAV	345	130750 COOPC345	345	2	70										
				Open 125001 ROCK TAV	345	130750 COOPC345	345	2											
39	1906.4	5994.6	L:	146758 CHESTER	138	146771 SHOEM138	138	1											
				C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71										
				Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1											
40	1910.3	5998.5	*L:	130763 HILSD230	230	131154 STONY RIDGE	230	1											
				C:131342 BENET115	115	131347 HOWARD	115	1	469										
				Open 131342 BENET115	115	131347 HOWARD	115	1											
46	2055.8	6144.1	L:	130750 COOPC345	345	147833 MARCY T1	345	1											
				C:130750 COOPC345	345	130753 FRASR345	345	1	257										
				Open 130750 COOPC345	345	130753 FRASR345	345	1											
48	2100.0	6180.0	L:	130751 FRASR345	345	130753 FRASR345	345	1											

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			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62487	0.17993	817.4	1204.9
63	2177.2	6265.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-536.8	-707.0	-0.07818		-0.04852	-455.1	-560.8
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
64	2177.7	6266.0	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.20070		0.12380	894.1	1163.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							
70	2202.5	6290.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	455.1	562.0	0.04852			805.2	1186.3
			Base Case											
82	2247.2	6335.5	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1143.5	-1724.0	-0.25830		-0.18532	-880.3	-1296.8
			C:BUS:N.S._77											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1							
92	2291.6	6380.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1165.4	-1793.0	-0.27386		-0.16423	-686.3	-1062.6
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
98	2294.9	6383.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:150											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	147905 ILION	115	1							
99	2294.9	6383.2	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:160											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	137246 VALLEY	115	1							
103	2310.4	6398.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.06533		-0.05537	-329.2	-457.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
104	2313.1	6401.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.06588		-0.05537	-329.2	-457.2
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
107	2331.3	6419.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.8	-540.0	-0.06530		-0.05537	-329.2	-458.3
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579 WARREN	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							



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			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.09294	-0.25867	-506.9	-1121.0
124	2385.4	6473.7	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-886.3	-1331.0	-0.18644	
			Base Case											
132	2400.4	6488.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.25402	
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17898	806.2	1235.9
133	2403.9	6492.3	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-1391.9	-1912.0	-0.21634	
			C:BUS:N.S._99					1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62647	-0.02570	-356.7	-418.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.15668	-0.19254	-905.3	-1368.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.02957	-0.00321	279.1	271.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06746	-0.18532	-880.3	-1325.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.09502	0.00000	2.1	2.1
138	2416.9	6505.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-385.8	-540.0	-0.06380	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10706	0.07873	528.9	719.2
145	2431.9	6520.3	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18532	
			Base Case											
163	2461.8	6550.2	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-384.3	-540.0	-0.06326	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10706	-0.07369	-514.6	-696.0
167	2467.0	6555.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:180					1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19130	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00017	-0.00537	46.2	32.9
168	2467.0	6555.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19128	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00025	-0.00476	40.8	29.1
219	2537.1	6625.5	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09799	-0.15143	-305.2	-689.4
224	2540.8	6629.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-94.7	-173.0	-0.03083	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05027	0.17499	805.2	1249.8
246	2557.8	6646.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1				306.6	430.0	0.04823	
			Base Case											
258	2562.6	6651.0	L: 130750 COOPC345	345	130753 FRASR345	345	1				-985.3	-1703.0	-0.28007	
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39710	0.18318	175.8	645.2
294	2578.0	6666.4	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1101.0	1724.0	0.24167	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19254	-905.3	-1401.6
307	2582.2	6670.8	L: 130751 OAKDL345	345	130755 OAKDL345	345	1				227.2	478.0	0.05840	

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			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.12065	-0.09310	-559.2	-800.7		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00914	-0.01940	-44.7	-95.0		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
357	2598.1	6686.5	L: 130764 MEYER230	230	134750	DAIRY230	230	1				-378.4	-540.0	-0.06219	-0.05537	-329.2	-473.0
			C:130754 KINTI345	345	149000	ROCH	345	1	270								
			Open 130754 KINTI345	345	149000	ROCH	345	1									
512	2614.4	6702.8	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1				325.4	478.0	0.05838	0.04720	259.9	383.2
			C:SER:HC-WC_30&W-F_171						1701								
			Open 135277 FALCONER	115	200579	WARREN	115	1									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA			0.04656	0.00478	-21.4	-8.9		
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1									
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA			-0.11969	-0.09310	-559.2	-802.6		
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1									
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA			0.00937	-0.01940	-44.7	-95.4		
1141	2619.7	6708.1	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1				259.4	383.0	0.04720			
			Base Case														
2728	2669.6	6758.0	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1				-257.0	-383.0	-0.04720			
			Base Case														
3416	2673.8	6762.2	L: 130750 COOPC345	345	130753	FRASR345	345	1				-1078.4	-1703.0	-0.23362	-0.20733	-915.5	-1469.8
			C:137451 LEEDS 3	345	147831	GILB	345	1	1086								
			Open 137451 LEEDS 3	345	147831	GILB	345	1									
3470	2676.0	6764.4	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1				536.8	746.0	0.07818	0.04852	455.1	585.0
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3478	2676.5	6764.9	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1				-455.1	-585.0	-0.04852			
			Base Case														
3557	2688.9	6777.3	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-1242.8	-1725.0	-0.17932	-0.13624	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184								
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1									
3563	2691.0	6779.5	L: 146758 CHESTER	138	146773	SGRLF138	138	1				178.7	317.0	0.05138	0.02846	115.6	192.2
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3575	2696.5	6785.0	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1				-1150.5	-1792.0	-0.23790	-0.19254	-905.3	-1424.4
			C:BUS:N.S._77						1714								
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1									
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1									
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA								
			Open 137200 EDIC	345	137452	N.SCOT77	345	1									
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1									
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1									
3582	2697.7	6786.1	L: Interface	73	MarcySouthS							1623.6	2552.0	0.34416			
			Base Case														
3592	2699.7	6788.1	L: 137200 EDIC	345	137452	N.SCOT77	345	1				1087.4	1724.0	0.23581	0.17898	806.2	1289.4
			C:BUS:N.S._99						1715								
			Open 137453 N.SCOT99	345	147831	GILB	345	1									
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1									

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			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
3633	2725.5	6813.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.5	478.0	0.05667	0.04720	259.9	388.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.12039	0.07873	528.9	743.5
3669	2777.7	6866.1	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.06123	0.04628	294.6	423.1
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2			0.33285	0.04492	286.5	411.2
3674	2784.0	6872.5	L: 130753 FRASR345	345	137200 EDIC	345	1	-861.5	-1380.0	-0.18623	-0.10375	-699.9	-988.7
			C:130753 FRASR345	345	130755 OAKDL345	345	1						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1			0.31887	-0.25867	-506.9	-1227.0
3676	2785.9	6874.3	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.05607	0.04720	259.9	391.3
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.12039	-0.07369	-514.6	-719.9
3678	2791.4	6879.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	375.7	540.0	0.05884	0.04833	317.3	452.2
			C:SER:HCWC/NWES										
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02850	-0.02129	57.1	-2.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA					
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10798	-0.09310	-559.2	-819.1
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA					
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00736	-0.01940	-44.7	-98.8
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA					
3679	2792.9	6881.3	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.2	540.0	0.05829	0.04833	317.3	452.3
			C:130757 WATRC345	345	135249 ARMENMTN	345	1						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10706	-0.09310	-559.2	-819.2
3680	2793.9	6882.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.2	-540.0	-0.05397	-0.05537	-329.2	-483.9
			C:BUS:WATERCURE_345										
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			0.05592	-0.09310	-559.2	-819.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1			-0.11323	-0.05833	254.0	91.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.04915	0.00000	0.0	0.0
3681	2798.4	6886.9	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-663.4	-927.0	-0.09420	-0.09310	-559.2	-819.7
			C:HQ-NY-765-New										
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA					
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA					
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02337	0.02518	888.3	958.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02337	0.02190	774.3	835.5
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA					
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.02354	-150.9	-216.7
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA					
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA					
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA					
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA					
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch						
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch						

## CE\_Group

			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.06637	0.17499	805.2	1299.3					
3692	2833.4	6921.8	L: 147834 NIAG 345	345	149000 ROCH 345	345	1		805.2	1301.0	0.17499								
			Base Case																
3697	2866.1	6954.5	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2		386.3	560.0	0.06061		0.04492	286.5	415.2				
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028											
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1					0.33891	0.04628	294.6	427.2				
3698	2866.8	6955.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-940.4	-1331.0	-0.13624								
			Base Case																
3699	2871.3	6959.8	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		528.9	755.0	0.07873								
			Base Case																
3700	2872.4	6960.8	L: 137451 LEEDS 3	345	147831 GILB 345	345	1		-975.7	-1428.0	-0.15747								
			Base Case																
3704	2876.0	6964.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1219.8	-1725.0	-0.17566		-0.13624	-940.4	-1332.2				
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186											
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1					0.30400	-0.12965	-919.1	-1292.0				
3708	2889.6	6978.0	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		402.5	560.0	0.05452		0.04628	294.6	428.3				
			C:BUS:RTRDM 99 BUS					1713											
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2					0.38700	0.04492	286.5	416.3				
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	2					0.13116	-0.02376	-246.0	-314.6				
			Open 102385 BRWAMP	230	137730 ROTRDM.2	230	1					0.25137	-0.02399	116.6	47.2				
			Open 115 RTDM99SW	230	137730 ROTRDM.2	230	1					-0.29189	0.00000	-0.0	-0.0				
3709	2892.1	6980.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-506.9	-1255.0	-0.25867								
			Base Case																
3719	2914.9	7003.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-583.1	-1380.0	-0.27339		-0.25867	-506.9	-1260.9				
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1					0.10759	-0.13683	-708.1	-1106.9				
3726	2925.7	7014.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.05676		0.04833	317.3	458.7				
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35											
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1					0.10706	0.07873	528.9	759.3				
3728	2931.8	7020.3	L: 137200 EDIC	345	137452 N.SCOT77	345	1		806.2	1331.0	0.17898								
			Base Case																
3730	2937.4	7025.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-585.4	-1380.0	-0.27052		-0.25867	-506.9	-1266.7				
			C:BUS:N.S._77					1714											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1					-0.00036	-0.03612	-100.5	-206.6				
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1					0.01971	-0.00314	264.2	255.0				
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA										
			Open 137200 EDIC	345	137452 N.SCOT77	345	1					-0.07055	0.17898	806.2	1332.0				
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1					-0.02581	-0.03181	-6.3	-99.7				
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1					0.10798	0.00000	-250.0	-250.0				
3731	2944.4	7032.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27254		-0.25867	-506.9	-1268.5				
			C:SIN:170					1771											
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1					0.07202	-0.19254	-905.3	-1472.2				
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1					-0.06015	0.00000	91.0	91.0				
			Open 137235 PORTER 1	115	137246 VALLEY	115	1					0.00090	-0.00476	40.8	26.8				
3732	2944.4	7032.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27253		-0.25867	-506.9	-1268.5				
			C:STN:180					1772											

## CE\_Group

			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1				-0.02850	-0.02129	57.1	-6.3	
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10798	-0.09310	-559.2	-836.5	
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00736	-0.01940	-44.7	-102.5	
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA							
3749	2981.1	7069.6	L: 95976 STONYCRK	230	131122	WTHRS230	230	1		366.5	540.0	0.05820		0.04823	306.6	450.4
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.10706	-0.09310	-559.2	-836.8	
3750	2981.2	7069.6	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		372.4	540.0	0.05622		0.04833	317.3	461.4
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448							
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.10706	-0.07369	-514.6	-734.2	
3752	2993.2	7081.7	L: 130753 FRASR345	345	130755	OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:160						1770							
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.05920	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	137246	VALLEY	115	1				0.00090	-0.00476	40.8	26.6	
3753	2993.2	7081.7	L: 130753 FRASR345	345	130755	OAKDL345	345	1		-568.4	-1380.0	-0.27114		-0.25867	-506.9	-1281.2
			C:SIN:150						1769							
			Open 137200 EDIC	345	137452	N.SCOT77	345	1				-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886	INGHAM-E	115	1				-0.05912	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	147905	ILION	115	1				0.00060	-0.00537	46.2	30.1	

# F-to-G

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 7:41  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3758  
 First violation - 940.5 MW.

Study transfer. From ON\_E\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3758 violations

Interface-1 Interface 10 F-To-G Init.Flow= 3828.28 TDF= 0.5864

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=				
			C: Contingency description	Flow	Rating	LODF	Init	Final				
1	940.5	4379.8	L: 146758 CHESTER C:SIN:440	138 146771 SHOEM138 1783	138 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
2	940.5	4379.8	L: 146758 CHESTER C:125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO	138 1 345 1	-268.4	-317.0	-0.05168	-0.02846	-156.0	-182.7	
			Open 125001 ROCK TAV	345 126297 RAMAPO	345 1				-0.10846	0.21408	1036.7	1238.0
3	964.2	4393.7	L: 130761 AVOCA230 C:130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN	230 1 345 1	326.7	383.0	0.05840	0.04720	259.4	304.9	
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12039	-0.09310	-559.2	-649.0
4	976.3	4400.8	L: 130761 AVOCA230 C:SER:HCWC/NWES	230 131154 STONY RIDGE 1707	230 1	326.0	383.0	0.05842	0.04720	259.4	305.4	
			Open 130836 N.WAV115	115 200676 E.SAYRE	115 1				-0.00811	-0.02129	57.1	36.3
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.12065	-0.09310	-559.2	-650.1
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00914	-0.01940	-44.7	-63.6
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						
5	995.5	4412.1	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171	230 131154 STONY RIDGE 1701	230 1	324.9	383.0	0.05838	0.04720	259.4	306.3	
			Open 135277 FALCONER	115 200579 WARREN	115 1				0.04656	0.00478	-21.4	-16.6
			Open 95593 CHERYFLT	345 135249 ARMENMTN	345 1	NA						
			Open 130757 WATRC345	345 135249 ARMENMTN	345 1				-0.11969	-0.09310	-559.2	-651.9
			Open 135248 ARMENMTN	345 135249 ARMENMTN	345 1	NA						
			Open 95593 CHERYFLT	345 200769 HOMER CY	345 1				0.00937	-0.01940	-44.7	-64.0
			Open 95593 CHERYFLT	345 95594 CHERYWIND	34.5 1	NA						



F-to-G

			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
26	1796.8	4882.0	L: 135862 MUMFORD1	115	135866 NLEROYTA	115	1												
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317											
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1												
27	1798.0	4882.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
28	1803.3	4885.8	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
29	1813.3	4891.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274											
			Open 130755 OAKDL345	345	131128 LAPEER	345	1												
30	1819.9	4895.5	L: 130750 COOPC345	345	130753 FRASR345	345	1												
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261											
			Open 130750 COOPC345	345	147833 MARCY T1	345	1												
31	1820.9	4896.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1												
			Base Case																
32	1846.8	4911.3	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459											
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1												
33	1848.2	4912.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:130774 BATH 115	115	131347 HOWARD	115	1	296											
			Open 130774 BATH 115	115	131347 HOWARD	115	1												
34	1850.7	4913.6	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
35	1850.7	4913.6	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1												
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1												
36	1865.1	4922.0	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
37	1889.6	4936.4	L: 130750 COOPC345	345	146754 MDTN TAP	345	1												
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	70											
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2												
39	1906.4	4946.2	L: 146758 CHESTER	138	146771 SHOEM138	138	1												
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71											
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1												
40	1910.3	4948.5	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1												
			C:131342 BENET115	115	131347 HOWARD	115	1	469											
			Open 131342 BENET115	115	131347 HOWARD	115	1												
46	2055.8	5033.8	L: 130750 COOPC345	345	147833 MARCY T1	345	1												
			C:130750 COOPC345	345	130753 FRASR345	345	1	257											
			Open 130750 COOPC345	345	130753 FRASR345	345	1												
48	2100.0	5060.0	L: 130751 FRASR345	345	130753 FRASR345	345	1												



F-to-G

			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.62487	0.17993	817.4	1204.9
63	2177.2	5105.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-536.8	-707.0	-0.07818		-0.04852	-455.1	-560.8
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
64	2177.7	5105.3	L: 130754 KINTI345	345	149000 ROCH 345	345	1	1247.9	1685.0	0.20070		0.12380	894.1	1163.7
			C:147834 NIAG 345	345	149000 ROCH 345	345	1							
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1							
70	2202.5	5119.8	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	455.1	562.0	0.04852			805.2	1186.3
			Base Case											
82	2247.2	5146.0	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1143.5	-1724.0	-0.25830		-0.18532	-880.3	-1296.8
			C:BUS:N.S._77											
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1							
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1							
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1							
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1							
92	2291.6	5172.1	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1165.4	-1793.0	-0.27386		-0.16423	-686.3	-1062.6
			C:SER:CMT34&MTR34											
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1							
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1							
98	2294.9	5174.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:150											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	147905 ILION	115	1							
99	2294.9	5174.0	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1206.1	-1792.0	-0.25529		-0.19254	-905.3	-1347.1
			C:SIN:160											
			Open 137200 EDIC	345	137452 N.SCOT77	345	1							
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1							
			Open 137235 PORTER 1	115	137246 VALLEY	115	1							
103	2310.4	5183.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.1	-540.0	-0.06533		-0.05537	-329.2	-457.1
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
104	2313.1	5184.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.6	-540.0	-0.06588		-0.05537	-329.2	-457.2
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1							
107	2331.3	5195.4	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-387.8	-540.0	-0.06530		-0.05537	-329.2	-458.3
			C:SER:HC-WC_30&W-F_171											
			Open 135277 FALCONER	115	200579 WARREN	115	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1							

F-to-G

			C:130753 FRASR345	345	130755 OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				-0.09294	-0.25867	-506.9	-1121.0
124	2385.4	5227.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1				-886.3	-1331.0	-0.18644	
			Base Case											
132	2400.4	5235.9	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1				-1182.2	-1792.0	-0.25402	
			C:137200 EDIC	345	137452 N.SCOT77	345	1	1024						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.34354	0.17898	806.2	1235.9
133	2403.9	5238.0	L: 137451 LEEDS 3	345	147831 GILB 345	345	1				-1391.9	-1912.0	-0.21634	
			C:BUS:N.S._99					1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1				0.62647	-0.02570	-356.7	-418.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				0.15668	-0.19254	-905.3	-1368.1
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1				0.02957	-0.00321	279.1	271.4
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2				0.06746	-0.18532	-880.3	-1325.8
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.09502	0.00000	2.1	2.1
138	2416.9	5245.6	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-385.8	-540.0	-0.06380	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				-0.10706	0.07873	528.9	719.2
145	2431.9	5254.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2				-880.3	-1331.0	-0.18532	
			Base Case											
163	2461.8	5271.9	L: 130764 MEYER230	230	134750 DAIRY230	230	1				-384.3	-540.0	-0.06326	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.10706	-0.07369	-514.6	-696.0
167	2467.0	5274.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:180					1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19130	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	147905 ILION	115	1				0.00017	-0.00537	46.2	32.9
168	2467.0	5274.9	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1124.6	1724.0	0.24298	
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.33240	-0.19254	-905.3	-1380.2
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				0.19128	0.00000	91.0	91.0
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				0.00025	-0.00476	40.8	29.1
219	2537.1	5316.1	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	
			C:130755 OAKDL345	345	130757 WATRC345	345	1	271						
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				-0.09799	-0.15143	-305.2	-689.4
224	2540.8	5318.2	L: 135858 GOLAH115	115	135862 MUMFORD1	115	1				-94.7	-173.0	-0.03083	
			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				-0.05027	0.17499	805.2	1249.8
246	2557.8	5328.2	L: 95976 STONYCRK	230	131122 WTHRS230	230	1				306.6	430.0	0.04823	
			Base Case											
258	2562.6	5331.0	L: 130750 COOPC345	345	130753 FRASR345	345	1				-985.3	-1703.0	-0.28007	
			C:130753 FRASR345	345	147831 GILB 345	345	1	268						
			Open 130753 FRASR345	345	147831 GILB 345	345	1				-0.39710	0.18318	175.8	645.2
294	2578.0	5340.1	L: 137200 EDIC	345	137452 N.SCOT77	345	1				1101.0	1724.0	0.24167	
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1	1091						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1				-0.32557	-0.19254	-905.3	-1401.6
307	2582.2	5342.6	L: 130751 CNYOG115	115	131850 CNYOG115	115	1				37.2	143.0	0.04171	

F-to-G

			Open 130757 WATRC345	345	135249	ARMENMTN	345	1				-0.12065	-0.09310	-559.2	-800.7		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA								
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.00914	-0.01940	-44.7	-95.0		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA								
357	2598.1	5351.8	L: 130764 MEYER230	230	134750	DAIRY230	230	1				-378.4	-540.0	-0.06219	-0.05537	-329.2	-473.0
			C:130754 KINTI345	345	149000	ROCH	345	1	270								
			Open 130754 KINTI345	345	149000	ROCH	345	1									
512	2614.4	5361.4	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1				325.4	478.0	0.05838	0.04720	259.9	383.2
			C:SER:HC-WC_30&W-F_171						1701								
			Open 135277 FALCONER	115	200579	WARREN	115	1									
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA			0.04656	0.00478	-21.4	-8.9		
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1									
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA			-0.11969	-0.09310	-559.2	-802.6		
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1									
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA			0.00937	-0.01940	-44.7	-95.4		
1141	2619.7	5364.5	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1				259.4	383.0	0.04720			
			Base Case														
2728	2669.6	5393.8	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1				-257.0	-383.0	-0.04720			
			Base Case														
3416	2673.8	5396.2	L: 130750 COOPC345	345	130753	FRASR345	345	1				-1078.4	-1703.0	-0.23362	-0.20733	-915.5	-1469.8
			C:137451 LEEDS 3	345	147831	GILB	345	1	1086								
			Open 137451 LEEDS 3	345	147831	GILB	345	1									
3470	2676.0	5397.5	L: 146754 MDTN TAP	345	146772	SHOEMTAP	138	1				536.8	746.0	0.07818	0.04852	455.1	585.0
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3478	2676.5	5397.8	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1				-455.1	-585.0	-0.04852			
			Base Case														
3557	2688.9	5405.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2				-1242.8	-1725.0	-0.17932	-0.13624	-940.4	-1306.8
			C:126294 PLTVLLEY	345	137451	LEEDS 3	345	1	184								
			Open 126294 PLTVLLEY	345	137451	LEEDS 3	345	1									
3563	2691.0	5406.3	L: 146758 CHESTER	138	146773	SGRLF138	138	1				178.7	317.0	0.05138	0.02846	115.6	192.2
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1	71								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1									
3575	2696.5	5409.6	L: 137453 N.SCOT99	345	147833	MARCY T1	345	1				-1150.5	-1792.0	-0.23790	-0.19254	-905.3	-1424.4
			C:BUS:N.S._77						1714								
			Open 137452 N.SCOT77	345	137453	N.SCOT99	345	1									
			Open 137452 N.SCOT77	345	137516	N.SCOT1	115	1									
			Open 120601 STARS-00601	13.8	137452	N.SCOT77	345	01	NA								
			Open 137200 EDIC	345	137452	N.SCOT77	345	1									
			Open 137450 ALPS345	345	137452	N.SCOT77	345	1									
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1									
3582	2697.7	5410.2	L: Interface	73	MarcySouthS							1623.6	2552.0	0.34416			
			Base Case														
3592	2699.7	5411.4	L: 137200 EDIC	345	137452	N.SCOT77	345	1				1087.4	1724.0	0.23581	0.17898	806.2	1289.4
			C:BUS:N.S._99						1715								
			Open 137453 N.SCOT99	345	147831	GILB	345	1									
			Open 137453 N.SCOT99	345	147833	MARCY T1	345	1									

F-to-G

			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05390	0.00000	-1360.8	-1360.8	
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
3633	2725.5	5426.5	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	323.5	478.0	0.05667	0.04720	259.9	388.5	
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1							
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1				0.12039	0.07873	528.9	743.5
3669	2777.7	5457.2	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	389.9	560.0	0.06123	0.04628	294.6	423.1	
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2							
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2				0.33285	0.04492	286.5	411.2
3674	2784.0	5460.9	L: 130753 FRASR345	345	137200 EDIC	345	1	-861.5	-1380.0	-0.18623	-0.10375	-699.9	-988.7	
			C:130753 FRASR345	345	130755 OAKDL345	345	1							
			Open 130753 FRASR345	345	130755 OAKDL345	345	1				0.31887	-0.25867	-506.9	-1227.0
3676	2785.9	5461.9	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	321.8	478.0	0.05607	0.04720	259.9	391.3	
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1							
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.12039	-0.07369	-514.6	-719.9
3678	2791.4	5465.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	375.7	540.0	0.05884	0.04833	317.3	452.2	
			C:SER:HCWC/NWES											
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				-0.02850	-0.02129	57.1	-2.3
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10798	-0.09310	-559.2	-819.1
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00736	-0.01940	-44.7	-98.8
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3679	2792.9	5466.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	377.2	540.0	0.05829	0.04833	317.3	452.3	
			C:130757 WATRC345	345	135249 ARMENMTN	345	1							
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				-0.10706	-0.09310	-559.2	-819.2
3680	2793.9	5466.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.2	-540.0	-0.05397	-0.05537	-329.2	-483.9	
			C:BUS:WATERCURE_345											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.05592	-0.09310	-559.2	-819.3
			Open 130757 WATRC345	345	130768 WATRC230	230	1				-0.11323	-0.05833	254.0	91.0
			Open 130755 OAKDL345	345	130757 WATRC345	345	1				0.04915	0.00000	0.0	0.0
3681	2798.4	5469.3	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-663.4	-927.0	-0.09420	-0.09310	-559.2	-819.7	
			C:HQ-NY-765-New											
			Open 147827 MARCY765	765	147828 MASS 765	765	1	NA						
			Open 147828 MASS 765	765	180819 CHA-NY	765	1	NA						
			Open 147827 MARCY765	765	147833 MARCY T1	345	1				-0.02337	0.02518	888.3	958.7
			Open 147827 MARCY765	765	147833 MARCY T1	345	2				-0.02337	0.02190	774.3	835.5
			Open 156 MCY765SW	765	147827 MARCY765	765	1	NA						
			Open 147838 MASS230B	230	147839 MOSES E	230	1				0.00000	-0.02354	-150.9	-216.7
			Open 147828 MASS 765	765	147838 MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839 MOSES E	230	1				0.05390	0.00000	-153.0	-153.0
			Open 147828 MASS 765	765	147837 MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828 MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828 MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation by	100.0	percent dispatch							
			Set bus 181319 CHAT G3	120	load to	357.0	MW dispatch							
			Decrease bus 180002 BEA-DL	13.8	generation by	100.0	percent dispatch							
			Set bus 181318 CHAT G4	120	load to	357.0	MW dispatch							

F-to-G

			C:147834 NIAG 345	345	149000 ROCH 345	345	1	1317						
			Open 147834 NIAG 345	345	345 149000 ROCH 345	345	1		0.06637	0.17499	805.2	1299.3		
3692	2833.4	5489.8	L: 147834 NIAG 345	345	345 149000 ROCH 345	345	1		805.2	1301.0	0.17499			
			Base Case											
3697	2866.1	5509.0	L: 137210 PORTER 2	230	137730 ROTRDM.2	230	2		386.3	560.0	0.06061		0.04492	286.5 415.2
			C:137204 JORDNVLL	230	137730 ROTRDM.2	230	1	1028						
			Open 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		0.33891	0.04628	294.6	427.2		
3698	2866.8	5509.4	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-940.4	-1331.0	-0.13624			
			Base Case											
3699	2871.3	5512.1	L: 95593 CHERYFLT	345	135249 ARMENMTN	345	1		528.9	755.0	0.07873			
			Base Case											
3700	2872.4	5512.7	L: 137451 LEEDS 3	345	147831 GILB 345	345	1		-975.7	-1428.0	-0.15747			
			Base Case											
3704	2876.0	5514.8	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2		-1219.8	-1725.0	-0.17566		-0.13624	-940.4 -1332.2
			C:126294 PLTVLLEY	345	137455 ATHENS	345	1	186						
			Open 126294 PLTVLLEY	345	137455 ATHENS	345	1		0.30400	-0.12965	-919.1	-1292.0		
3708	2889.6	5522.8	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1		402.5	560.0	0.05452		0.04628	294.6 428.3
			C:BUS:RTRDM 99 BUS					1713						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2		0.38700	0.04492	286.5	416.3		
			Open 137532 RTRDM1	115	137730 ROTRDM.2	230	2		0.13116	-0.02376	-246.0	-314.6		
			Open 102385 BRWAMP	230	137730 ROTRDM.2	230	1		0.25137	-0.02399	116.6	47.2		
			Open 115 RTDM99SW	230	137730 ROTRDM.2	230	1		-0.29189	0.00000	-0.0	-0.0		
3709	2892.1	5524.2	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-506.9	-1255.0	-0.25867			
			Base Case											
3719	2914.9	5537.6	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-583.1	-1380.0	-0.27339		-0.25867	-506.9 -1260.9
			C:130750 COOPC345	345	147833 MARCY T1	345	1	261						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1		0.10759	-0.13683	-708.1	-1106.9		
3726	2925.7	5543.9	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		373.9	540.0	0.05676		0.04833	317.3 458.7
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1	35						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		0.10706	0.07873	528.9	759.3		
3728	2931.8	5547.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1		806.2	1331.0	0.17898			
			Base Case											
3730	2937.4	5550.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-585.4	-1380.0	-0.27052		-0.25867	-506.9 -1266.7
			C:BUS:N.S._77					1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1		-0.00036	-0.03612	-100.5	-206.6		
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1		0.01971	-0.00314	264.2	255.0		
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA					
			Open 137200 EDIC	345	137452 N.SCOT77	345	1		-0.07055	0.17898	806.2	1332.0		
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1		-0.02581	-0.03181	-6.3	-99.7		
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1		0.10798	0.00000	-250.0	-250.0		
3731	2944.4	5554.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27254		-0.25867	-506.9 -1268.5
			C:SIN:170					1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1		0.07202	-0.19254	-905.3	-1472.2		
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1		-0.06015	0.00000	91.0	91.0		
			Open 137235 PORTER 1	115	137246 VALLEY	115	1		0.00090	-0.00476	40.8	26.8		
3732	2944.4	5554.9	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-577.5	-1380.0	-0.27253		-0.25867	-506.9 -1268.5
			C:STN:180					1772						

F-to-G

			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02850	-0.02129	57.1	-6.3	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10798	-0.09310	-559.2	-836.5	
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00736	-0.01940	-44.7	-102.5	
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
3749	2981.1	5576.4	L: 95976 STONYCRK	230	131122 WTHRS230	230	1		366.5	540.0	0.05820	0.04823	306.6	450.4
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10706	-0.09310	-559.2	-836.8	
3750	2981.2	5576.5	L: 131122 WTHRS230	230	134750 DAIRY230	230	1		372.4	540.0	0.05622	0.04833	317.3	461.4
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			-0.10706	-0.07369	-514.6	-734.2	
3752	2993.2	5583.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114	-0.25867	-506.9	-1281.2
			C:SIN:160					1770						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.05920	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00090	-0.00476	40.8	26.6	
3753	2993.2	5583.5	L: 130753 FRASR345	345	130755 OAKDL345	345	1		-568.4	-1380.0	-0.27114	-0.25867	-506.9	-1281.2
			C:SIN:150					1769						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.06966	0.17898	806.2	1342.0	
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.05912	0.00000	91.0	91.0	
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00060	-0.00537	46.2	30.1	

# UPNY-SENY

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 8:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 3737  
 First violation - 876.5 MW.

Study transfer. From ON\_F\_EXP To GHI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 3737 violations

Interface-1 Interface 11 UPNY SENY-OP Init.Flow= 5848.08 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	876.5	6724.5	L: 146758 CHESTER C:125001 ROCK TAV Open 125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO 345 1	138 1 345 1 69	-272.1 -0.05128	-0.02819	-157.9 1052.3 1238.8
2	876.5	6724.5	L: 146758 CHESTER C:SIN:440 Open 125001 ROCK TAV	138 146771 SHOEM138 345 126297 RAMAPO 345 1	138 1 345 1 1783	-272.1 -0.05128	-0.02819	-157.9 1052.3 1238.8
3	941.9	6789.9	L: 130761 AVOCA230 C:130757 WATRC345 Open 130757 WATRC345	230 131154 STONY RIDGE 345 135249 ARMENMTN 345 1	230 1 345 1 278	329.9 0.05641	0.04559	261.2 304.2 -654.7
4	953.6	6801.7	L: 130761 AVOCA230 C:SER:HCWC/NWES Open 130836 N.WAV115 Open 95593 CHERYFLT Open 130757 WATRC345 Open 135248 ARMENMTN Open 95593 CHERYFLT Open 95593 CHERYFLT	230 131154 STONY RIDGE 115 200676 E.SAYRE 345 135249 ARMENMTN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 200769 HOMER CY 345 95594 CHERYWIND	230 1 115 1 345 1 345 1 345 1 345 1 34.5 1	329.2 0.05643	0.04559	261.2 52.4 32.8 -570.0 -655.7
5	976.8	6824.9	L: 130761 AVOCA230 C:SER:HC-WC_30&W-F_171 Open 135277 FALCONER Open 95593 CHERYFLT Open 130757 WATRC345 Open 135248 ARMENMTN Open 95593 CHERYFLT	230 131154 STONY RIDGE 115 200579 WARREN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 135249 ARMENMTN 345 200769 HOMER CY	230 1 115 1 345 1 345 1 345 1 345 1	327.9 0.05638	0.04559	261.2 -24.3 -19.8 -570.0 -657.8





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			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				-0.07644	-0.03269	-463.4	-522.1
26	1800.2	7648.2	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		605.5	746.0	0.07803	0.04817	457.8	544.5
			C:SIN:440					1783						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14040	0.21273	1052.3	1435.3
27	1800.2	7648.2	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1		605.5	746.0	0.07803	0.04817	457.8	544.5
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				0.14040	0.21273	1052.3	1435.3
28	1811.6	7659.7	L: 130764 MEYER230	230	134750 DAIRY230	230	1		-333.2	-430.0	-0.05345			
			Base Case											
29	1822.5	7670.6	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		290.6	383.0	0.05069	0.04559	261.2	344.3
			C:130774 BATH 115	115	131347 HOWARD	115	1	296						
			Open 130774 BATH 115	115	131347 HOWARD	115	1				-0.28810	-0.01771	-102.0	-134.3
30	1828.7	7676.7	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		297.6	383.0	0.04670	0.04559	261.2	344.6
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				-0.06540	-0.01697	-556.1	-587.2
31	1845.5	7693.6	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-294.3	-383.0	-0.04809	-0.04559	-258.8	-343.0
			C:130755 OAKDL345	345	131128 LAPEER	345	1	274						
			Open 130755 OAKDL345	345	131128 LAPEER	345	1				0.07644	-0.03269	-463.4	-523.7
32	1856.3	7704.3	L: 130750 COOPC345	345	146754 MDTN TAP	345	1		1273.0	1793.0	0.28013	0.17710	828.6	1157.3
			C:125001 ROCK TAV	345	130750 COOPC345	345	2	70						
			Open 125001 ROCK TAV	345	130750 COOPC345	345	2				-0.63784	-0.16154	-696.8	-996.6
33	1865.8	7713.9	L: 146758 CHESTER	138	146771 SHOEM138	138	1		-222.4	-317.0	-0.05068	-0.02819	-157.9	-210.5
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1	71						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.17442	-0.12893	-370.2	-610.8
34	1869.8	7717.9	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-288.2	-383.0	-0.05069	-0.04559	-258.8	-344.1
			C:130774 BATH 115	115	131347 HOWARD	115	1	296						
			Open 130774 BATH 115	115	131347 HOWARD	115	1				0.28810	-0.01771	-102.0	-135.1
35	1880.1	7728.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-295.2	-383.0	-0.04670	-0.04559	-258.8	-344.5
			C:131128 LAPEER	345	136153 LAFAYTTE	345	1	459						
			Open 131128 LAPEER	345	136153 LAFAYTTE	345	1				0.06540	-0.01697	-556.1	-588.0
36	1886.2	7734.3	*L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		287.9	383.0	0.05043	0.04559	261.2	347.2
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				0.28810	0.01681	92.5	124.2
38	1933.8	7781.9	*L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-285.5	-383.0	-0.05043	-0.04559	-258.8	-347.0
			C:131342 BENET115	115	131347 HOWARD	115	1	469						
			Open 131342 BENET115	115	131347 HOWARD	115	1				-0.28810	0.01681	92.5	125.0
42	2023.1	7871.1	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1		-1237.0	-1724.0	-0.24074	-0.18802	-899.5	-1279.9
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.34142	-0.15443	-988.4	-1300.8
43	2028.8	7876.9	L: 130750 COOPC345	345	147833 MARCY T1	345	1		-962.4	-1345.0	-0.18859	-0.13446	-715.7	-988.5
			C:130750 COOPC345	345	130753 FRASR345	345	1	257						
			Open 130750 COOPC345	345	130753 FRASR345	345	1				0.26510	-0.20417	-930.4	-1344.7
45	2057.3	7905.4	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2		-1231.1	-1724.0	-0.23960	-0.18685	-893.5	-1277.9
			C:137451 LEEDS 3	345	147831 GILB 345	345	1	1086						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1				0.34158	-0.15443	-988.4	-1306.1
46	2058.2	7906.4	L: 130750 COOPC345	345	130753 FRASR345	345	1		570.0	755.0	0.00000			

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			Open 147834 NIAG 345	345	149000 ROCH 345	345	1				0.43958	0.16873	823.1	1186.0
56	2163.6	8011.7	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	457.8	562.0	0.04817				
			Base Case											
57	2170.5	8018.6	L: 137451 LEEDS 3	345	137453 N.SCOT99	345	2	-1162.4	-1724.0	-0.25875		-0.18685	-893.5	-1299.0
			C:BUS:N.S._77				1714							
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1				0.60288	-0.03048	-104.3	-170.5
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1				0.39248	-0.01017	263.9	241.8
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01	NA						
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.32374	0.17225	818.2	1192.1
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1				-0.25026	-0.02489	-9.2	-63.2
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1				0.18797	0.00000	-250.0	-250.0
73	2264.9	8113.0	L: 125001 ROCK TAV	345	130750 COOPC345	345	2	-1182.8	-1793.0	-0.26941		-0.16154	-696.8	-1062.6
			C:SER:CMT34&MTR34				1692							
			Open 130750 COOPC345	345	146754 MDTN TAP	345	1				-0.55078	0.17710	828.6	1229.7
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1				0.08016	-0.12893	-370.2	-662.3
82	2295.0	8143.0	L: 137451 LEEDS 3	345	137452 N.SCOT77	345	1	-899.5	-1331.0	-0.18802				
			Base Case											
86	2311.2	8159.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-394.2	-540.0	-0.06308		-0.05345	-333.2	-456.7
			C:130757 WATRC345	345	135249 ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10710	-0.08987	-570.0	-777.7
87	2312.2	8160.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1223.9	-1792.0	-0.24567		-0.18527	-918.5	-1346.9
			C:SIN:160				1770							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.35070	0.17225	818.2	1216.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.19967	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	137246 VALLEY	115	1				-0.00024	-0.00459	41.5	30.9
88	2312.2	8160.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1223.9	-1792.0	-0.24567		-0.18527	-918.5	-1346.9
			C:SIN:150				1769							
			Open 137200 EDIC	345	137452 N.SCOT77	345	1				-0.35070	0.17225	818.2	1216.5
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1				-0.19969	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	147905 ILION	115	1				-0.00016	-0.00518	47.0	35.0
89	2312.4	8160.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-392.9	-540.0	-0.06361		-0.05345	-333.2	-456.8
			C:SER:HCWC/NWES				1707							
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1				0.02852	-0.02055	52.4	4.9
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10801	-0.08987	-570.0	-777.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				-0.00735	-0.01872	-44.4	-87.7
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1	NA						
91	2327.9	8176.0	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	321.4	430.0	0.04666				
			Base Case											
95	2334.4	8182.5	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-392.8	-540.0	-0.06304		-0.05345	-333.2	-457.9
			C:SER:HC-WC_30&W-F_171				1701							
			Open 135277 FALCONER	115	200579 WARREN	115	1				-0.03156	0.00462	-24.3	-13.5
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1				0.10662	-0.08987	-570.0	-779.8
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1				0.00735	-0.01872	-44.4	-87.7

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115	2393.3	8241.4	L: 137451 LEEDS 3	345	147831 GILB 345	345	1	-1409.9	-1912.0	-0.20981	-0.15443	-988.4	-1358.0
			C:BUS:N.S._99				1715						
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			0.62648	-0.02142	-360.2	-411.5
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.15674	-0.18527	-918.5	-1361.9
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.02958	-0.01064	278.8	253.3
			Open 137451 LEEDS 3	345	137453 N.SCOT99	345	2			0.06748	-0.18685	-893.5	-1340.6
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			0.09521	0.00000	2.2	2.2
125	2419.2	8267.3	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-391.0	-540.0	-0.06159	-0.05345	-333.2	-462.5
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1					35	
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			-0.10710	0.07602	540.0	723.9
126	2423.2	8271.3	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1199.6	-1792.0	-0.24445	-0.18527	-918.5	-1367.4
			C:137200 EDIC	345	137452 N.SCOT77	345	1					1024	
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.34360	0.17225	818.2	1235.6
138	2465.0	8313.1	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-389.5	-540.0	-0.06107	-0.05345	-333.2	-464.9
			C: 95593 CHERYFLT	345	200769 HOMER CY	345	1					1448	
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.10710	-0.07115	-525.6	-701.0
156	2490.2	8338.2	L: 131018 LOUNSI115	115	131850 CNYOG115	115	1	42.7	143.0	0.04029	0.02595	10.9	75.5
			C:130755 OAKDL345	345	130757 WATRC345	345	1					271	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			-0.09803	-0.14624	-324.6	-688.8
157	2491.7	8339.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1141.3	1724.0	0.23384	0.17225	818.2	1247.4
			C:SIN:180				1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33247	-0.18527	-918.5	-1380.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19135	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00017	-0.00518	47.0	34.1
158	2491.7	8339.8	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1141.3	1724.0	0.23384	0.17225	818.2	1247.4
			C:SIN:170				1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.33247	-0.18527	-918.5	-1380.1
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			0.19133	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00025	-0.00459	41.5	30.1
185	2541.0	8389.1	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1006.7	-1703.0	-0.27401	-0.20417	-930.4	-1449.2
			C:130753 FRASR345	345	147831 GILB 345	345	1					268	
			Open 130753 FRASR345	345	147831 GILB 345	345	1			-0.39715	0.17585	192.1	638.9
186	2543.1	8391.2	L: 130848 S.OWE115	115	131850 CNYOG115	115	1	-40.5	-143.0	-0.04029	-0.02595	-8.7	-74.7
			C:130755 OAKDL345	345	130757 WATRC345	345	1					271	
			Open 130755 OAKDL345	345	130757 WATRC345	345	1			0.09803	-0.14624	-324.6	-696.5
200	2561.6	8409.7	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	310.7	430.0	0.04657			
			Base Case										
247	2608.5	8456.6	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1117.3	1724.0	0.23258	0.17225	818.2	1267.5
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1					1091	
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.32563	-0.18527	-918.5	-1401.8
260	2612.9	8461.0	L: 130764 MEYER230	230	134750 DAIRY230	230	1	-383.1	-540.0	-0.06003	-0.05345	-333.2	-472.8
			C:130754 KINTI345	345	149000 ROCH 345	345	1					270	
			Open 130754 KINTI345	345	149000 ROCH 345	345	1			-0.05511	0.11937	906.9	1218.8
271	2616.3	8464.3	L: 126294 PLTVLLEY	345	137451 LEEDS 3	345	2	-1255.9	-1725.0	-0.17931	-0.13623	-950.2	-1306.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1					184	
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.31036	-0.13879	-984.9	-1348.0
275	2617.1	8465.1	L: 130751 CNYOG115	115	131850 CNYOG115	115	1	220.4	470.0	0.05641	0.04550	261.7	381.0

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324	2642.0	8490.0	L: 130750 COOPC345	345	130753 FRASR345	345	1	-1095.5	-1703.0	-0.22995	-0.20417	-930.4	-1469.9
			C:137451 LEEDS 3	345	147831 GILB 345	345	1						
			Open 137451 LEEDS 3	345	147831 GILB 345	345	1			0.16696	-0.15443	-988.4	-1396.4
351	2648.3	8496.4	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	541.4	746.0	0.07727	0.04817	457.8	585.3
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.22574	-0.12893	-370.2	-711.7
373	2652.7	8500.8	L: 130751 CNDGUA_T	230	130761 AVOCA230	230	1	328.4	478.0	0.05638	0.04559	261.7	382.7
			C:SER:HC-WC_30&W-F_171										
			Open 135277 FALCONER	115	200579 WARREN	115	1			0.04656	0.00462	-24.3	-12.1
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.11971	-0.08987	-570.0	-808.4
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00937	-0.01872	-44.4	-94.1
			Open 95593 CHERYFLT	345	95594 CHERYWND	34.5	1		NA				
452	2662.3	8510.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	182.1	317.0	0.05068	0.02819	117.5	192.6
			C:125001 ROCK TAV	345	146754 MDTN TAP	345	1						
			Open 125001 ROCK TAV	345	146754 MDTN TAP	345	1			-0.17442	-0.12893	-370.2	-713.5
1103	2671.0	8519.1	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1	261.2	383.0	0.04559			
			Base Case										
1773	2674.9	8523.0	L: Interface 73		MarcySouthS			1646.2	2552.0	0.33863			
			Base Case										
1937	2690.1	8538.2	L: 130757 WATRC345	345	135249 ARMENMTN	345	1	-682.4	-927.0	-0.09094	-0.08987	-570.0	-811.8
			C:SPS:MARCY_AT1_AT2										
			Open 147827 MARCY765	765	147833 MARCY T1	345	1			-0.02334	0.02450	888.3	954.2
			Open 147827 MARCY765	765	147833 MARCY T1	345	2			-0.02334	0.02130	774.3	831.6
			Open 147827 MARCY765	765	147828 MASS 765	765	1		NA				
			Open 147828 MASS 765	765	180819 CHA-NY	765	1		NA				
			Open 156 MCY765SW	765	147827 MARCY765	765	1		NA				
			Open 147838 MASS230B	230	147839 MOSES E	230	1			0.00000	-0.02290	-150.9	-212.5
			Open 147828 MASS 765	765	147838 MASS230B	230	1		NA				
			Open 147837 MASS230A	230	147839 MOSES E	230	1			0.05404	0.00000	-1360.8	-1360.8
			Open 147828 MASS 765	765	147837 MASS230A	230	1		NA				
2239	2720.7	8568.8	L: 137453 N.SCOT99	345	147833 MARCY T1	345	1	-1166.7	-1792.0	-0.22984	-0.18527	-918.5	-1422.5
			C:BUS:N.S._77										
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.09421	-0.03048	-104.3	-187.3
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.02077	-0.01017	263.9	236.2
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.28305	0.17225	818.2	1286.9
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.06107	-0.02489	-9.2	-76.9
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.12983	0.00000	-250.0	-250.0
2699	2723.7	8571.7	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1	-258.8	-383.0	-0.04559			
			Base Case										
3560	2744.4	8592.5	L: 137200 EDIC	345	137452 N.SCOT77	345	1	1103.6	1724.0	0.22606	0.17225	818.2	1290.9
			C:BUS:N.S._99										
			Open 137453 N.SCOT99	345	147831 GILB 345	345	1			-0.18543	-0.02142	-360.2	-419.0
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			-0.38143	-0.18527	-918.5	-1426.9
			Open 137453 N.SCOT99	345	137516 N.SCOT1	115	1			0.02077	-0.01017	263.9	236.2

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			Open 147838 MASS230B	230	147839	MOSES E	230	1		0.00000	-0.02290	-150.9	-214.6		
			Open 147828 MASS 765	765	147838	MASS230B	230	1	NA						
			Open 147837 MASS230A	230	147839	MOSES E	230	1		0.05404	0.00000	-153.0	-153.0		
			Open 147828 MASS 765	765	147837	MASS230A	230	1	NA						
			Open 158 MS765SW2	765	147828	MASS 765	765	1	NA						
			Open 157 MS765SW1	765	147828	MASS 765	765	1	NA						
			Decrease bus 180001 BEA-DLX	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181319 CHAT G3	120	load	to	357.0	MW	dispatch						
			Decrease bus 180002 BEA-DL	13.8	generation	by	100.0	percent	dispatch						
			Set bus 181419 CHAT G4	120	load	to	357.0	MW	dispatch						
3644	2787.1	8635.2	L: 130753 FRASR345	345	137200	EDIC	345	1		-874.0	-1380.0	-0.18155	-0.10163	-704.6	-987.9
			C:130753 FRASR345	345	130755	OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.31893	-0.25057	-531.2	-1229.5		
3650	2795.0	8643.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-950.2	-1331.0	-0.13623			
			Base Case												
3651	2796.4	8644.4	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		381.1	540.0	0.05681	0.04666	321.4	451.9
			C:SER:HCWC/NWES					1707							
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		-0.02852	-0.02055	52.4	-5.0		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10801	-0.08987	-570.0	-821.3		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00735	-0.01872	-44.4	-96.8		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
3653	2799.6	8647.7	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		382.4	540.0	0.05628	0.04666	321.4	452.0
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10710	-0.08987	-570.0	-821.6		
3654	2800.2	8648.3	L: 130794 DELHI115	115	130838	OAKDL115	115	1		-82.5	-179.0	-0.03447	-0.01701	-45.4	-93.1
			C:130753 FRASR345	345	130755	OAKDL345	345	1	265						
			Open 130753 FRASR345	345	130755	OAKDL345	345	1		0.06970	-0.25057	-531.2	-1232.8		
3655	2804.0	8652.1	L: 126294 PLTVLLEY	345	137451	LEEDS 3	345	2		-1232.5	-1725.0	-0.17565	-0.13623	-950.2	-1332.2
			C:126294 PLTVLLEY	345	137455	ATHENS	345	1	186						
			Open 126294 PLTVLLEY	345	137455	ATHENS	345	1		0.30402	-0.12964	-928.4	-1291.9		
3664	2824.6	8672.6	L: 130764 MEYER230	230	134750	DAIRY230	230	1		-392.8	-540.0	-0.05210	-0.05345	-333.2	-484.1
			C:BUS:WATERCURE_345					1732							
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.05595	-0.08987	-570.0	-823.9		
			Open 130757 WATRC345	345	130768	WATRC230	230	1		-0.11322	-0.05637	245.4	86.2		
			Open 130755 OAKDL345	345	130757	WATRC345	345	1		0.04918	0.00000	-0.0	-0.0		
3665	2824.8	8672.9	L: 130751 CNDGUA_T	230	130761	AVOCA230	230	1		325.0	478.0	0.05415	0.04559	261.7	390.5
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.12041	-0.07115	-525.6	-726.6		
3666	2825.8	8673.9	L: 131122 WTHRS230	230	134750	DAIRY230	230	1		381.1	540.0	0.05625	0.04666	321.4	453.2
			C:SER:HC-WC_30&W-F_171					1701							
			Open 135277 FALCONER	115	200579	WARREN	115	1		0.03156	0.00462	-24.3	-11.3		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		-0.10662	-0.08987	-570.0	-824.0		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		0.00735	-0.01872	-44.4	-96.8		

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3697	2911.9	8760.0	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-608.2	-1380.0	-0.26504	-0.25057	-531.2	-1260.8
			C:130750 COOPC345	345	147833 MARCY T1	345	1						
			Open 130750 COOPC345	345	147833 MARCY T1	345	1			0.10765	-0.13446	-715.7	-1107.3
3703	2933.7	8781.8	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-610.6	-1380.0	-0.26228	-0.25057	-531.2	-1266.3
			C:BUS:N.S._77				1714						
			Open 137452 N.SCOT77	345	137453 N.SCOT99	345	1			-0.00034	-0.03048	-104.3	-193.8
			Open 137452 N.SCOT77	345	137516 N.SCOT1	115	1			0.01973	-0.01017	263.9	234.0
			Open 120601 STARS-00601	13.8	137452 N.SCOT77	345	01		NA				
			Open 137200 EDIC	345	137452 N.SCOT77	345	1			-0.07062	0.17225	818.2	1323.5
			Open 137450 ALPS345	345	137452 N.SCOT77	345	1			-0.02581	-0.02489	-9.2	-82.2
			Open 137451 LEEDS 3	345	137452 N.SCOT77	345	1			0.10828	0.00000	-250.0	-250.0
3704	2934.1	8782.2	L: 131122 WTHRS230	230	134750 DAIRY230	230	1	379.2	540.0	0.05480	0.04666	321.4	458.3
			C: 95593 CHERYFLT	345	135249 ARMENMTN	345	1						
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1			0.10710	0.07602	540.0	763.0
3707	2944.3	8792.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-602.9	-1380.0	-0.26392	-0.25057	-531.2	-1268.9
			C:SIN:170				1771						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07208	-0.18527	-918.5	-1464.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.06019	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	137246 VALLEY	115	1			0.00090	-0.00459	41.5	28.0
3708	2944.3	8792.4	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-602.9	-1380.0	-0.26392	-0.25057	-531.2	-1268.9
			C:SIN:180				1772						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.07208	-0.18527	-918.5	-1464.0
			Open 137228 INGMS-CD	115	137886 INGHAM-E	115	1			-0.06011	0.00000	92.6	92.6
			Open 137235 PORTER 1	115	147905 ILION	115	1			0.00060	-0.00518	47.0	31.8
3713	2955.6	8803.6	L: 137204 JORDNVLL	230	137730 ROTRDM.2	230	1	393.3	560.0	0.05641	0.04266	297.1	423.2
			C:137210 PORTER 2	230	137730 ROTRDM.2	230	2						
			Open 137210 PORTER 2	230	137730 ROTRDM.2	230	2			0.33286	0.04129	289.0	411.1
3717	2963.6	8811.7	L: 126294 PLTVLLEY	345	137455 ATHENS	345	1	-1219.3	-1725.0	-0.17064	-0.12964	-928.4	-1312.6
			C:126294 PLTVLLEY	345	137451 LEEDS 3	345	1						
			Open 126294 PLTVLLEY	345	137451 LEEDS 3	345	1			0.29535	-0.13879	-984.9	-1396.2
3725	2975.2	8823.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-634.5	-1380.0	-0.25057	-0.25057	-531.2	-1276.7
			C:SIN:250				1777						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
3726	2976.9	8825.0	L: 137200 EDIC	345	137452 N.SCOT77	345	1	818.2	1331.0	0.17225			
			Base Case										
3727	2977.3	8825.3	L: 130753 FRASR345	345	130755 OAKDL345	345	1	-595.4	-1380.0	-0.26352	-0.25057	-531.2	-1277.2
			C:137453 N.SCOT99	345	147833 MARCY T1	345	1						
			Open 137453 N.SCOT99	345	147833 MARCY T1	345	1			0.06994	-0.18527	-918.5	-1470.1
3730	2989.0	8837.1	L: 95976 STONYCRK	230	131122 WTHRS230	230	1	370.5	540.0	0.05672	0.04657	310.7	449.9
			C:SER:HCWC/NWES				1707						
			Open 130836 N.WAV115	115	200676 E.SAYRE	115	1			-0.02852	-0.02055	52.4	-9.0
			Open 95593 CHERYFLT	345	135249 ARMENMTN	345	1		NA				
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1			-0.10801	-0.08987	-570.0	-838.6
			Open 135248 ARMENMTN	345	135249 ARMENMTN	345	1		NA				
			Open 95593 CHERYFLT	345	200769 HOMER CY	345	1			0.00735	-0.01872	-44.4	-100.4
			Open 95593 CHERYFLT	345	95594 CHERYFLT	345	1		NA				

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C:SIN:150

1769

Open 137200 EDIC	345 137452 N.SCOT77	345 1	-0.06972	0.17225	818.2	1334.0
Open 137228 INGMS-CD	115 137886 INGHAM-E	115 1	-0.05916	0.00000	92.6	92.6
Open 137235 PORTER 1	115 147905 ILION	115 1	0.00060	-0.00518	47.0	31.5

# UPNY-ConEd

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 8:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 5600  
 First violation - -1317.0 MW.

Study transfer. From G\_EXPORT To HI\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 5600 violations

Interface-1 Interface 12 UPNY-CONED-O Init.Flow= 5476.40 TDF= 0.9635

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=			
			C: Contingency description	Flow	Rating	LODF	Init	Final			
1	-1317.0	4207.5	L: 125015 AC CBLTP C:125020 DANSKAMA Open 125020 DANSKAMA	115 1 115 1 87 115 1	295.9	240.0	0.04245	0.02163	150.4	121.9	
2	-1312.5	4211.8	L: 125015 AC CBLTP C:125021 DC CBLTP Open 125021 DC CBLTP	115 1 115 1 91 115 1	295.7	240.0	0.04245	0.02241	156.6	127.1	
3	452.0	5911.9	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 1 115 1 77 115 1	296.8	316.0	0.04256	0.02241	156.4	166.5	
4	458.3	5918.0	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 1 115 1 78 115 1	296.5	316.0	0.04256	-0.93147	-0.02163	-150.7	-160.5
5	533.6	5990.5	L: 125002 ROSETON Base Case	345 1	-414.4	-614.0	-0.37405				
6	564.0	6019.8	L: 125002 ROSETON Base Case	345 2	-416.2	-614.0	-0.35076				
7	655.2	6107.7	L: 146758 CHESTER C:SIN:440 Open 125001 ROCK TAV	138 1 1783 345 1	-272.1	-317.0	-0.06859	-0.10852	0.32331	1052.3	1264.2
8	655.2	6107.7	L: 146758 CHESTER C:125001 ROCK TAV Open 125001 ROCK TAV	138 1 345 1 69 345 1	-272.1	-317.0	-0.06859	-0.03350	-157.9	-179.8	
9	804.5	6251.5	L: 120701 STARS-00701 C:GEN:SEAB&OMS Open 120701 STARS-00701	13.8 01 1674 115 0	149.9	300.0	0.18654	0.18654	149.6	299.7	



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			C:GEN:SALEM						1666										
			Remove unit 1 from bus	36	SALEM-G1	22.0	1107.4	MW	dispatch										
14	804.9	6251.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.9	300.0	0.18654		0.18654	149.6	299.7				
			C:GEN:PEACHBTM						1667										
			Remove unit 1 from bus	34	PCHBTM 2	22.0	1051.0	MW	dispatch										
15	804.9	6251.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.9	300.0	0.18654		0.18654	149.6	299.7				
			C:GEN:IND PT 3						1654										
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch										
16	804.9	6251.9	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.9	300.0	0.18654		0.18654	149.6	299.7				
			C:GEN:IND PT 2						1653										
			Remove unit 2 from bus	126651	IND PT 2	22.0	1021.8	MW	dispatch										
17	805.1	6252.1	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.8	300.0	0.18654		0.18654	149.6	299.8				
			C:GEN:FITZPATR						1658										
			Open 136155 SCRIBA	345	147830 JA FITZP	345	1		0.00000	0.00008	-203.6		-203.6						
			Open 137200 EDIC	345	147830 JA FITZP	345	1		0.00000	0.00000	37.4		37.4						
			Remove unit 1 from bus	147797	JAFITZ1G	24.0	851.5	MW	dispatch										
18	805.1	6252.1	*L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.8	300.0	0.18654		0.18654	149.6	299.8				
			C:GEN:BRUCE 6						1663										
			Remove unit 1 from bus	159617	BRUCEBG5	24.0	840.0	MW	dispatch										
1097	806.2	6253.2	L: 120701 STARS-00701	13.8	125001 ROCK TAV	345	01		149.6	300.0	0.18654								
			Base Case																
1864	1149.5	6583.9	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1		-296.2	-345.0	-0.04245		-0.02163	-150.7	-175.6				
			C:125020 DANSKAMA	115	125021 DC CBLTP	115	1	87											
			Open 125020 DANSKAMA	115	125021 DC CBLTP	115	1		-0.92915	0.02241	156.6		182.4						
1865	1153.9	6588.2	L: 125015 AC CBLTP	115	125020 DANSKAMA	115	1		-296.0	-345.0	-0.04245		-0.02163	-150.7	-175.7				
			C:125021 DC CBLTP	115	125041 N.CHELSE	115	1	91											
			Open 125021 DC CBLTP	115	125041 N.CHELSE	115	1		-0.92915	0.02241	156.4		182.3						
1866	1178.8	6612.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-605.5	-707.0	-0.08608		-0.04069	-457.8	-505.8				
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.14040	0.32331	1052.3		1433.4						
1867	1178.8	6612.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1		-605.5	-707.0	-0.08608		-0.04069	-457.8	-505.8				
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		-0.14040	0.32331	1052.3		1433.4						
1868	1243.7	6674.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1		231.7	317.0	0.06859		0.03350	117.5	159.2				
			C:SIN:440					1783											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		0.10852	0.32331	1052.3		1454.4						
1869	1243.7	6674.7	L: 146758 CHESTER	138	146773 SGRLF138	138	1		231.7	317.0	0.06859		0.03350	117.5	159.2				
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1		0.10852	0.32331	1052.3		1454.4						
1870	1246.1	6676.9	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1		297.0	350.0	0.04256		0.02241	156.6	184.5				
			C:125015 AC CBLTP	115	125020 DANSKAMA	115	1	77											
			Open 125015 AC CBLTP	115	125020 DANSKAMA	115	1		-0.93147	-0.02163	-150.7		-177.7						
1871	1252.4	6683.0	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1		296.7	350.0	0.04256		0.02241	156.6	184.7				
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1	78											
			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1		0.93147	0.02163	150.4		177.5						
1872	1421.1	6845.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1		1233.8	1935.0	0.49341								

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1877	1631.9	7048.7	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	605.5	746.0	0.08608	0.04069	457.8	524.2
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14040	0.32331	1052.3	1579.9
1878	1631.9	7048.7	L: 146754 MDTN TAP	345	146772 SHOEMTAP	138	1	605.5	746.0	0.08608	0.04069	457.8	524.2
			C:SIN:440										
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.14040	0.32331	1052.3	1579.9
1879	1703.6	7117.8	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.5	-104.0	-0.03372			
			Base Case										
1880	1869.2	7277.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-420.8	-1120.0	-0.37405	-0.37405	-414.4	-1113.6
			C:SIN:250										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
1881	1872.4	7280.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8
			C:SIN:120										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	-0.18652	778.5	429.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	-0.18652	778.5	429.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	0.47310	39.3	925.2
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW								
1882	1872.4	7280.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.37405	-0.37405	-414.4	-1114.8
			C:SIN:130										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	-0.18652	778.5	429.3
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	-0.18652	778.5	429.3
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	0.47310	39.3	925.2
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1						
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4 MW								
1883	1883.8	7291.3	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0
			C:GEN:SEAB&OMS										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
1884	1883.8	7291.3	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.4	-1120.0	-0.37405	-0.37405	-414.4	-1119.0
			C:GEN:SEABROOK										
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0 MW								
1885	1883.8	7291.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1
			C:GEN:MILLST 3										
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
1886	1883.8	7291.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.3	-1120.0	-0.37405	-0.37405	-414.4	-1119.1
			C:GEN:MLS3&OMS										
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0 MW								
1887	1884.2	7291.7	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-415.2	-1120.0	-0.37405	-0.37405	-414.4	-1119.2
			C:GEN:SALEM										
			Remove unit 1 from bus 103563 MILL#3	24.0	1276.0 MW								

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3736	2003.9	7407.1	L: 125002 ROSETON C:GEN:SEABROOK Remove unit 1 from bus 102869 SBRK G1	345	125192	ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.0
3737	2003.9	7407.1	L: 125002 ROSETON C:GEN:SEAB&OMS Open 100508 SANDB115 Remove unit 1 from bus 102869 SBRK G1	345	125192	ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.0
3738	2004.0	7407.2	L: 125002 ROSETON C:GEN:MLS3&OMS Open 100508 SANDB115 Remove unit 3 from bus 103563 MILL#3	345	125192	ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.1
3739	2004.0	7407.2	L: 125002 ROSETON C:GEN:MILLST 3 Remove unit 3 from bus 103563 MILL#3	345	125192	ROSE GN2	24.0	2	-417.1	-1120.0	-0.35076	-0.35076	-416.2	-1119.1
3740	2004.3	7407.5	L: 125002 ROSETON C:GEN:SALEM Remove unit 1 from bus 36 SALEM-G1	345	125192	ROSE GN2	24.0	2	-417.0	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
3741	2004.4	7407.6	L: 125002 ROSETON C:GEN:PEACHBTM Remove unit 1 from bus 34 PCHBTM 2	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
3742	2004.5	7407.6	L: 125002 ROSETON C:GEN:IND PT 3 Remove unit 1 from bus 147798 IP#3 GEN	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.2
3743	2004.5	7407.7	L: 125002 ROSETON C:GEN:IND PT 2 Remove unit 2 from bus 126651 IND PT 2	345	125192	ROSE GN2	24.0	2	-416.9	-1120.0	-0.35076	-0.35076	-416.2	-1119.3
3744	2004.8	7408.0	L: 125002 ROSETON C:GEN:FITZPATR Open 136155 SCRIBA Open 137200 EDIC Remove unit 1 from bus 147797 JAFITZ1G	345	125192	ROSE GN2	24.0	2	-416.8	-1120.0	-0.35076	-0.35076	-416.2	-1119.4
3745	2004.9	7408.0	*L: 125002 ROSETON C:GEN:BRUCE 6 Remove unit 1 from bus 159617 BRUCEBG5	345	125192	ROSE GN2	24.0	2	-416.8	-1120.0	-0.35076	-0.35076	-416.2	-1119.4
5590	2226.6	7621.7	L: 125001 ROCK TAV C:125002 ROSETON Open 125002 ROSETON	345	125002	ROSETON	345	1	-827.7	-1870.0	-0.46811	-0.16770	-76.5	-449.9
5591	2226.6	7621.7	L: 125001 ROCK TAV C:SIN:430 Open 125002 ROSETON	345	125002	ROSETON	345	1	-827.7	-1870.0	-0.46811	-0.16770	-76.5	-449.9
5592	2293.1	7685.8	L: 146758 CHESTER C:125002 ROSETON Open 125002 ROSETON	138	146771	SHOEM138	138	1	-200.8	-317.0	-0.05067	-0.03350	-157.9	-234.7
5593	2293.1	7685.8	L: 146758 CHESTER C:SIN:430 Open 125002 ROSETON	138	146771	SHOEM138	138	1	-200.8	-317.0	-0.05067	-0.03350	-157.9	-234.7
5594	2226.6	7621.7	L: 125001 ROCK TAV C:125002 ROSETON Open 125002 ROSETON	345	125002	ROSETON	345	1	-827.7	-1870.0	-0.46811	-0.16770	-76.5	-449.9

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5599	2999.7	8366.5	L: 125001 ROCK TAV	345	126297	RAMAPO	345	1	1238.7	2283.0	0.34814	0.32331	1052.3	2022.1	
			C:SER:F39&Y87					1681							
			Open 126281 FISHKILL	345	126305	WOOD A	345	1				0.08985	0.14839	1159.0	1604.1
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				-0.08034	-0.14318	-1023.5	-1453.0
			Open 126305 WOOD A	345	130758	WOODA345	345	1	NA						
			Open 130758 WOODA345	345	130865	WOODS115	115	1				0.07102	0.00000	-0.0	-0.0
5600	2999.7	8366.5	L: 125001 ROCK TAV	345	126297	RAMAPO	345	1	1238.7	2283.0	0.34814	0.32331	1052.3	2022.1	
			C:BUS:WOODA_345					1717							
			Open 126305 WOOD A	345	130758	WOODA345	345	1				-0.08034	0.00521	135.5	151.1
			Open 126281 FISHKILL	345	126305	WOOD A	345	1				0.17019	0.14839	1159.0	1604.1
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				-0.00932	0.00000	-0.0	-0.0

# MillwoodSouthClosed

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 8:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 5000.0 MW. Total violations: 12954  
 First violation - -1266.3 MW.

Study transfer. From GH\_EXPORT To I\_IMPORT . Transfer level - 5000.0 MW

Violations report ordered by transfer capability. Total 12954 violations

Interface-1 Interface 13 MILW-SOUTH-C Init.Flow= 9609.16 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating	LODF	Init	Final
1	-1266.3	8342.8	L: 125015 AC CBLTP C:125020 DANSKAMA Open 125020 DANSKAMA	115 1 115 1 87 115 1	240.0	0.04415	0.02249	150.4 121.9
2	-1262.0	8347.1	L: 125015 AC CBLTP C:125021 DC CBLTP Open 125021 DC CBLTP	115 1 115 1 91 115 1	240.0	0.04415	0.02249	150.4 122.0
3	355.6	9964.7	L: 120801 STARS-00901 C:147849 MOS 115 Open 147849 MOS 115	13.8 01 115 1 1352 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0
4	355.6	9964.7	L: 120801 STARS-00901 C:135455 MLPN-130 Open 135455 MLPN-130	13.8 01 115 1 677 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0
5	355.6	9964.7	L: 120801 STARS-00901 C:136214 LEE SCHL Open 136214 LEE SCHL	13.8 01 115 1 901 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0
6	355.6	9964.7	L: 120801 STARS-00901 C:SER:EESR/WRFL Open 135251 S RIPLEY Open 135277 FALCONER	13.8 01 1709 230 1 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0
7	355.6	9964.7	L: 120801 STARS-00901 C:137525 PINETAPE Open 137525 PINETAPE	13.8 01 115 1 1167 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0
8	355.6	9964.7	L: 120801 STARS-00901 C:147848 ALCOA S Open 147848 ALCOA S	13.8 01 115 1 1348 115 1	-300.0	-0.96970	-0.96970	44.8 -300.0

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1260	355.6	9964.7	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01	44.8	-300.0	-0.96970				
			Base Case												
1856	434.6	10043.8	L: 125021 DC CBLTP	115	125041	N.CHELSE	115	1	296.8	316.0	0.04426	0.02331	156.4	166.5	
			C:125015 AC CBLTP	115	125020	DANSKAMA	115	1	77						
			Open 125015 AC CBLTP	115	125020	DANSKAMA	115	1				-0.93147	-0.02249	-150.7	-160.5
1857	440.7	10049.8	L: 125021 DC CBLTP	115	125041	N.CHELSE	115	1	296.5	316.0	0.04426	0.02331	156.4	166.7	
			C:125015 AC CBLTP	115	125041	N.CHELSE	115	1	78						
			Open 125015 AC CBLTP	115	125041	N.CHELSE	115	1				0.93147	0.02249	150.4	160.3
1858	599.5	10208.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-414.4	-614.0	-0.33292				
			Base Case												
1859	633.7	10242.9	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2	-416.2	-614.0	-0.31219				
			Base Case												
1860	903.9	10513.1	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:SEABROOK						1672						
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch						
1861	903.9	10513.1	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:SEAB&OMS						1674						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW			dispatch						
1862	904.0	10513.1	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:MILLST 3						1671						
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch						
1863	904.0	10513.1	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:MLS3&OMS						1673						
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW			dispatch						
1864	904.2	10513.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:SALEM						1666						
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW			dispatch						
1865	904.3	10513.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7	
			C:GEN:IND PT 3-New						1874						
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1				0.00000	0.02785	506.2	531.3
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2				-0.00025	-0.05540	-1009.3	-1059.4
1866	904.3	10513.5	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:PEACHBTM						1667						
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0	MW			dispatch						
1867	904.3	10513.5	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:IND PT 3						1654						
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW			dispatch						
1868	904.3	10513.5	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.16604	0.16603	149.6	299.7	
			C:GEN:IND PT 2-New						1873						
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1				0.00000	-0.02729	-493.4	-518.0
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2				-0.00025	-0.05457	-986.7	-1036.1
1869	904.3	10513.5	*L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603	0.16603	149.6	299.7	
			C:GEN:IND PT 2						1653						
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8	MW			dispatch						
2000	005.0	10515.0	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.16603				

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			Open 125015 AC CBLTP	115	125041 N.CHELSE	115	1			0.93147	0.02249	150.4	177.5
3719	1261.7	10870.9	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1233.8	1935.0	0.55571			
			Base Case										
3720	1310.3	10919.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-272.1	-317.0	-0.03430	-0.01674	-157.9	-179.8
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.10852	0.16177	1052.3	1264.3
3721	1310.3	10919.5	L: 146758 CHESTER	138	146771 SHOEM138	138	1	-272.1	-317.0	-0.03430	-0.01674	-157.9	-179.8
			C:SIN:440					1783					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.10852	0.16177	1052.3	1264.3
3722	1329.6	10938.7	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	187.7	240.0	0.03931	0.02249	150.4	180.3
			C:SIN:430					1782					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.03025	0.55571	1233.8	1972.7
3723	1329.6	10938.7	L: 125015 AC CBLTP	115	125041 N.CHELSE	115	1	187.7	240.0	0.03931	0.02249	150.4	180.3
			C:125002 ROSETON	345	126281 FISHKILL	345	1	72					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.03025	0.55571	1233.8	1972.7
3724	1914.1	11523.3	L: 125020 DANSKAMA	115	125195 DANSK G2	13.8	2	-46.5	-104.0	-0.03001			
			Base Case										
3725	1977.4	11586.5	L: 126281 FISHKILL	345	126292 PL VILLE	345	1	1059.5	1936.0	0.44325			
			Base Case										
3726	2077.1	11686.2	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1801.5	3137.0	0.64298	0.55571	1233.8	2388.1
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.53943	0.16177	1052.3	1388.3
3727	2077.1	11686.2	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1801.5	3137.0	0.64298	0.55571	1233.8	2388.1
			C:SIN:440					1783					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.53943	0.16177	1052.3	1388.3
3728	2100.2	11709.4	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-420.8	-1120.0	-0.33292	-0.33292	-414.4	-1113.6
			C:SIN:250					1777					
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
3729	2103.7	11712.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:130					1768					
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	0.08283	778.5	952.8
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	0.08283	778.5	952.8
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	-0.05540	39.3	-77.2
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
3730	2103.7	11712.9	L: 125002 ROSETON	345	125190 ROSE GN1	24.0	1	-419.6	-1120.0	-0.33292	-0.33292	-414.4	-1114.8
			C:SIN:120					1767					
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00000	0.08283	778.5	952.8
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00000	0.08283	778.5	952.8
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00000	-0.05540	39.3	-77.2
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA			
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA			
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				





## MillwoodSouthClosed

7440	2415.8	12025.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04200	-0.01929	-457.8	-504.4
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.16177	1052.3	1443.1
7441	2415.8	12025.0	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04200	-0.01929	-457.8	-504.4
			C:SIN:440					1783					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.16177	1052.3	1443.1
7442	2487.2	12096.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	231.7	317.0	0.03430	0.01674	117.5	159.1
			C:SIN:440					1783					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.10852	0.16177	1052.3	1454.7
7443	2487.2	12096.3	L: 146758 CHESTER	138	146773 SGRLF138	138	1	231.7	317.0	0.03430	0.01674	117.5	159.1
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69					
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			0.10852	0.16177	1052.3	1454.7
7444	2501.5	12110.6	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-12.9	2384.0	0.95819	0.52038	-1059.4	242.3
			C:126281 FISHKILL	345	126292 PL VILLE	345	1	172					
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1			0.98771	0.44325	1059.5	2168.3
7445	2758.5	12367.6	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1513.4	3137.0	0.58857	0.55571	1233.8	2766.8
			C:SIN:130					1768					
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.21595	0.08283	778.5	1007.0
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.21595	0.08283	778.5	1007.0
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.05267	-0.05540	39.3	-113.5
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
7446	2758.5	12367.6	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1513.4	3137.0	0.58857	0.55571	1233.8	2766.8
			C:SIN:120					1767					
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.21595	0.08283	778.5	1007.0
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.21595	0.08283	778.5	1007.0
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.05267	-0.05540	39.3	-113.5
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
7447	2776.4	12385.5	L: 125001 ROCK TAV	345	125002 ROSETON	345	1	-827.7	-1870.0	-0.37541	-0.03707	-76.5	-179.4
			C:125002 ROSETON	345	126281 FISHKILL	345	1	72					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.60884	0.55571	1233.8	2776.7
7448	2776.4	12385.5	L: 125001 ROCK TAV	345	125002 ROSETON	345	1	-827.7	-1870.0	-0.37541	-0.03707	-76.5	-179.4
			C:SIN:430					1782					
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.60884	0.55571	1233.8	2776.7
7449	2962.6	12571.8	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1429.9	3137.0	0.57619	0.55571	1233.8	2880.2
			C:SIN:280					1778					
			Open 126262 BUCHANAN N	345	126267 E VIEW 2N	345	1			0.15082	0.12256	1126.3	1489.4
			Open 126267 E VIEW 2N	345	126298 SPRBROOK	345	1			0.01035	0.11405	912.7	1250.6
			Open 126267 E VIEW 2N	345	126378 EASTVIEW	138	1			-0.12030	0.00000	1.8	1.8
			Open 126262 BUCHANAN N	345	126360 BUCHNTA5	138	1			0.14063	0.00579	120.9	138.1
7450	2968.6	12577.7	L: 125021 DC CBLTP	115	125041 N.CHELSE	115	1	195.1	316.0	0.04074	0.02331	156.4	225.6
			C:SIN:430					1782					





MillwoodSouthClosed

11173	4339.3	13948.5	L: 146758 CHESTER	138	146773 SGRLF138	138	1	160.4	317.0	0.03608	0.01674	117.5	190.1
			C:SIN:430				1782						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.03480	0.55571	1233.8	3645.3
11174	4339.3	13948.5	L: 146758 CHESTER	138	146773 SGRLF138	138	1	160.4	317.0	0.03608	0.01674	117.5	190.1
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			0.03480	0.55571	1233.8	3645.3
11175	4367.3	13976.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-513.4	-707.0	-0.04433	-0.01929	-457.8	-542.0
			C:SIN:430				1782						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.04506	0.55571	1233.8	3660.8
11176	4367.3	13976.5	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-513.4	-707.0	-0.04433	-0.01929	-457.8	-542.0
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.04506	0.55571	1233.8	3660.8
11177	4431.2	14040.3	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1232.4	2283.0	0.23710	0.16177	1052.3	1769.2
			C:126281 FISHKILL	345	126292 PL VILLE	345	1						
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1			0.16994	0.44325	1059.5	3023.7
11178	4440.4	14049.6	L: 125026 FISHKILL	115	125041 N.CHELSE	115	1	-120.5	-278.0	-0.03547	-0.01943	-84.9	-171.2
			C:SIN:430				1782						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.02886	0.55571	1233.8	3701.4
11179	4440.4	14049.6	L: 125026 FISHKILL	115	125041 N.CHELSE	115	1	-120.5	-278.0	-0.03547	-0.01943	-84.9	-171.2
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.02886	0.55571	1233.8	3701.4
11180	4460.1	14069.3	L: 126372 DUN SO	138	126373 DUN SO N7	138	1	-330.3	-497.0	-0.03739	-0.00170	-297.0	-304.6
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1						
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			0.08748	-0.40798	-379.9	-2199.5
11181	4460.1	14069.3	L: 126298 SPRBROOK	345	126373 DUN SO N7	138	7	330.3	497.0	0.03739	0.00170	297.0	304.6
			C:126266 DUNWODIE	345	126298 SPRBROOK	345	1						
			Open 126266 DUNWODIE	345	126298 SPRBROOK	345	1			-0.08748	-0.40798	-379.9	-2199.5
11183	4475.7	14084.9	L: 125013 MERRITT	115	125027 FORGEBRK	115	1	-96.6	-240.0	-0.03204	-0.01613	-61.3	-133.5
			C:SIN:430				1782						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.02863	0.55571	1233.8	3721.1
11184	4475.7	14084.9	L: 125013 MERRITT	115	125027 FORGEBRK	115	1	-96.6	-240.0	-0.03204	-0.01613	-61.3	-133.5
			C:125002 ROSETON	345	126281 FISHKILL	345	1						
			Open 125002 ROSETON	345	126281 FISHKILL	345	1			-0.02863	0.55571	1233.8	3721.1
11190	4613.0	14222.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1230.9	2283.0	0.22806	0.16177	1052.3	1798.6
			C:BUS:PLVILLE_345				1720						
			Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1			0.11201	-0.00606	44.9	17.0
			Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01	NA					
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.17066	0.52038	-1059.4	1341.1
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1			0.16064	0.96970	-44.8	4428.4
11191	4613.0	14222.2	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1230.9	2283.0	0.22806	0.16177	1052.3	1798.6
			C:SIN:430				1680						
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1			0.17066	0.44325	1059.5	3104.3
			Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1			-0.05865	-0.00606	44.9	17.0
			Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01	NA					
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.01002	0.96970	-44.8	4428.4
11195	4689.8	14298.9	L: 125001 ROCK TAV	345	126297 RAMAPO	345	1	1052.3	1811.0	0.16177			

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PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 8:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24178  
 First violation - -1825.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24178 violations

Interface-1 Interface 16 I-TO-J Init.Flow= 3600.30 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating		LODF	Init Final
1	-1825.5	1774.8	L: 125015 AC CBLTP C:125020 DANSKAMA Open 125020 DANSKAMA	115 125041 N.CHELSE 115 1 87 115 125021 DC CBLTP 115 1	295.9	240.0	0.03063	0.01560 150.4 121.9
2	-1819.3	1781.0	L: 125015 AC CBLTP C:125021 DC CBLTP Open 125021 DC CBLTP	115 125041 N.CHELSE 115 1 91 115 125041 N.CHELSE 115 1	295.7	240.0	0.03063	0.01560 150.4 122.0
3	439.0	4039.3	L: 126481 RAINEY8W Base Case	138 126562 8W DUM 138 1	-163.1	-256.0	-0.21150	0.92915 0.01617 156.6 127.1
4	440.2	4040.5	L: 126481 RAINEY8W Base Case	138 126507 VERNON-W 138 1	162.9	256.0	0.21150	0.01560 150.4 122.0
5	590.5	4190.8	L: 126480 RAINEY8E Base Case	138 126506 VERNON-E 138 1	120.3	251.0	0.22135	0.92915 0.01617 156.4 127.0
6	592.8	4193.1	L: 126480 RAINEY8E Base Case	138 126561 8E DUM 138 1	-120.8	-252.0	-0.22135	
7	626.5	4226.8	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 125041 N.CHELSE 115 1 77 115 125020 DANSKAMA 115 1	296.8	316.0	0.03070	0.01617 156.4 166.5
8	635.3	4235.6	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 125041 N.CHELSE 115 1 78 115 125041 N.CHELSE 115 1	296.5	316.0	0.03070	-0.93147 -0.01560 -150.7 -160.5
9	658.5	4258.7	L: 126481 RAINEY8W C:GEN:NYPA_AS Remove unit 1 from bus 147788 POLETGT2 Remove unit 1 from bus 147789 POLETSTG Remove unit 1 from bus 147788 POLETGT1	138 126562 8W DUM 138 1 1651 18.0 128.3 MW dispatch 18.0 128.3 MW dispatch 18.0 128.3 MW dispatch	-232.7	-372.0	-0.21150	0.93147 0.01560 150.4 160.3 -0.21150 -163.1 -302.4



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			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1				-0.13119	0.00000	231.0	231.0
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1				0.00976	-0.00000	49.7	49.7
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1				0.00976	-0.00000	49.7	49.7
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA						
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.00239	0.01531	-87.4	-74.0
24	879.2	4479.5	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	146.4	342.0	0.22250		0.22135	120.3	314.9
			C:BUS:GOWANUS_S_345											1724
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY				-0.00488	-0.08266	239.7	167.0
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1				0.14151	0.00000	228.7	228.7
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1				0.00000	0.00000	49.7	49.7
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1				0.00000	0.00000	44.5	44.5
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1				-0.00980	-0.07619	522.9	455.9
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				0.00738	0.00000	0.5	0.5
25	880.8	4481.1	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	145.9	342.0	0.22260		0.22135	120.3	315.3
			C:BUS:GOWANUS_N_345											1723
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				-0.00976	-0.00647	40.3	34.6
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY				-0.01465	-0.08327	239.7	166.4
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1				0.13119	0.00000	231.0	231.0
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1				-0.00976	-0.00000	49.7	49.7
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1				-0.00976	-0.00000	49.7	49.7
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA						
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				-0.00239	0.01531	-87.4	-73.9
26	889.2	4489.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	558.6	783.0	0.25239				
			Base Case											
27	889.2	4489.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	558.6	783.0	0.25239				
			Base Case											
28	909.7	4510.0	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-179.6	-372.0	-0.21150		-0.21150	-163.1	-355.5
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.03349	0.00000	491.2	491.2
29	910.1	4510.4	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-179.5	-372.0	-0.21150		-0.21150	-163.1	-355.6
			C:BUS:TREMONT_345											1731
			Open 126466 SECT 11	138	126470 38X01 T	138	1				-0.03349	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1				-0.03349	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1				-0.03349	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473 38X04 T	138	1				-0.03349	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.00401	0.00000	2.3	2.3
30	910.9	4511.2	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	179.4	372.0	0.21150		0.21150	162.9	355.5
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.03349	0.00000	491.2	491.2
31	911.3	4511.6	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	179.3	372.0	0.21150		0.21150	162.9	355.6
			C:BUS:TREMONT_345											1731
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.03349	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1				0.03349	0.00002	122.2	122.2

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			Open 126466 SECT 11	138	126470	38X01 T	138	1				-0.03442	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471	38X02 T	138	1				-0.03442	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466	SECT 11	138	1		NA					
			Open 126467 SECT 12	138	126472	38X03 T	138	1				-0.03442	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473	38X04 T	138	1				-0.03442	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467	SECT 12	138	1		NA					
			Open 126301 TREMONT	345	126462	PARK TR1	138	1		NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1		NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				0.00412	0.00000	2.3	2.3
34	925.2	4525.5	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	137.2	342.0	0.22135		0.22135	120.3	325.1
			C:126298 SPRBROOK	345	126301	TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				0.03442	0.00000	491.2	491.2
35	925.6	4525.9	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	137.1	342.0	0.22135		0.22135	120.3	325.2
			C:BUS:TREMONT_345						1731						
			Open 126466 SECT 11	138	126470	38X01 T	138	1				0.03442	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471	38X02 T	138	1				0.03442	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466	SECT 11	138	1		NA					
			Open 126467 SECT 12	138	126472	38X03 T	138	1				0.03442	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473	38X04 T	138	1				0.03442	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467	SECT 12	138	1		NA					
			Open 126301 TREMONT	345	126462	PARK TR1	138	1		NA					
			Open 126301 TREMONT	345	126463	PARK TR2	138	1		NA					
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				-0.00412	0.00000	2.3	2.3
36	927.6	4527.9	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-175.8	-372.0	-0.21150		-0.21150	-163.1	-359.3
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				-0.03160	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				0.03564	0.00000	0.6	0.6
37	928.8	4529.1	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	175.6	372.0	0.21150		0.21150	162.9	359.3
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				0.03160	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				-0.03564	0.00000	0.6	0.6
38	940.6	4540.9	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-133.8	-342.0	-0.22135		-0.22135	-120.8	-329.0
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				-0.03247	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				0.03663	0.00000	0.6	0.6
39	942.8	4543.1	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	133.3	342.0	0.22135		0.22135	120.3	329.0
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				0.03247	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				-0.03663	0.00000	0.6	0.6
40	957.1	4557.4	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-169.6	-372.0	-0.21150		-0.21150	-163.1	-365.6
			C:126374 DUN SOLR	138	126385	E179 ST	138	1	1462						
			Open 126374 DUN SOLR	138	126385	E179 ST	138	1				-0.02750	-0.00000	234.1	234.1
41	959.2	4559.5	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	169.2	372.0	0.21150		0.21150	162.9	359.3



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44	960.4	4560.7	L: 126481 RAINY8W	138	126507 VERNON-W	138	1	168.7	372.0	0.21164	0.21150	162.9	366.0
			C:SER:W90&W74										
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			-0.00093	-0.16165	-977.7	-1133.0
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			0.01523	-0.00008	322.2	322.1
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			0.00060	-0.00158	42.8	41.3
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			-0.00319	0.00000	2.9	2.9
45	960.9	4561.2	L: 126481 RAINY8W	138	126507 VERNON-W	138	1	168.5	372.0	0.21180	0.21150	162.9	366.1
			C:SER:W89&W73										
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			-0.00095	-0.32474	-1059.4	-1371.4
			Open 126343 W73 TAP	345	126372 DUN SO	138	1			0.01338	-0.00008	341.7	341.7
46	963.2	4563.5	*L: 126481 RAINY8W	138	126562 8W DUM	138	1	-167.8	-372.0	-0.21205	-0.21150	-163.1	-366.9
			C:SIN:130										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			-0.00334	0.07384	778.5	849.6
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			-0.00334	0.07384	778.5	849.6
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			0.00141	-0.04128	39.3	-0.4
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
50	964.4	4564.7	*L: 126481 RAINY8W	138	126507 VERNON-W	138	1	167.5	372.0	0.21205	0.21150	162.9	366.9
			C:SIN:120										
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1			0.00334	0.07384	778.5	849.7
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2			0.00334	0.07384	778.5	849.7
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1			-0.00141	-0.04128	39.3	-0.5
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
66	969.5	4569.8	L: 126480 RAINY8E	138	126561 8E DUM	138	1	-127.4	-342.0	-0.22135	-0.22135	-120.8	-335.4
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462					
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1			-0.02826	-0.00000	234.1	234.1
76	971.6	4571.9	L: 126480 RAINY8E	138	126561 8E DUM	138	1	-126.8	-342.0	-0.22151	-0.22135	-120.8	-335.9
			C:SER:W90&W74										
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			0.00096	-0.16165	-977.7	-1134.8
			Open 126342 W74 TAP	345	126368 DUN NO	138	1			-0.01565	-0.00008	322.2	322.1
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1			-0.00062	-0.00158	42.8	41.3
			Open 126293 PL VILLW	345	126305 WOOD A	345	1			0.00328	0.00000	2.9	2.9
77	971.7	4572.0	L: 126480 RAINY8E	138	126506 VERNON-E	138	1	126.9	342.0	0.22135	0.22135	120.3	335.4
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462					
			Open 126374 DUN SO1R	138	126385 E179 ST	138	1			0.02826	-0.00000	234.1	234.1
80	972.1	4572.4	L: 126480 RAINY8E	138	126561 8E DUM	138	1	-126.5	-342.0	-0.22167	-0.22135	-120.8	-336.0
			C:SER:W89&W73										
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1			0.00098	-0.32474	-1059.4	-1375.1
			Open 126343 W73 TAP	345	126372 DUN SO	138	1			-0.01375	-0.00008	341.7	341.7
83	973.8	4574.1	L: 126480 RAINY8E	138	126506 VERNON-E	138	1	126.3	342.0	0.22151	0.22135	120.3	335.9
			C:SER:W90&W74										
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1			0.00096	-0.16165	-977.7	-1135.0

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			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch					
110	977.7	4578.0	*L: 126480 RAINEY8E	138	126506	VERNON-E	138	1		125.0	342.0	0.22192	0.22135	120.3	336.7
			C:SIN:120						1767						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00344	0.07384	778.5	850.7		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00344	0.07384	778.5	850.7		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.00145	-0.04128	39.3	-1.0		
			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch					
7378	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:125037 MARLBORO	115	125057	W.BALMVL	115	1	118						
			Open 125037 MARLBORO	115	125057	W.BALMVL	115	1		0.00000	0.00132	29.7	31.0		
7379	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:136544 UDG-184	115	148003	CARGR184	115	1	937						
			Open 136544 UDG-184	115	148003	CARGR184	115	1		0.00000	0.00000	-10.7	-10.7		
7380	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:GEN:PICKER 6						1665						
			Remove unit 1 from bus	156683	PIC B G5		24.0	542.0	MW	dispatch					
7381	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137517 N. TROY	115	137543	SYCA-14	115	1	1153						
			Open 137517 N. TROY	115	137543	SYCA-14	115	1		0.00000	-0.00016	-103.8	-104.0		
7382	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:130791 CORN TP1	115	131395	CORN1115	115	1	327						
			Open 130791 CORN TP1	115	131395	CORN1115	115	1		0.00000	0.00000	14.3	14.3		
7383	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:126511 38W03	138	126831	WASH T2	138	1	249						
			Open 126511 38W03	138	126831	WASH T2	138	1		0.00000	0.00000	56.7	56.7		
7384	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:135450 GRDNVL1	115	135462	RDGE-145	115	1	646						
			Open 135450 GRDNVL1	115	135462	RDGE-145	115	1		0.00000	-0.00000	34.2	34.2		
7385	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:125044 REYNOLDS	115	125198	DR CBLTP	115	1	133						
			Open 125044 REYNOLDS	115	125198	DR CBLTP	115	1		0.00000	-0.00609	-29.6	-35.8		
7386	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137906 STONER	115	137911	VAIL TAP	115	1	1262						
			Open 137906 STONER	115	137911	VAIL TAP	115	1		0.00000	0.00008	-11.0	-11.0		
7387	1009.3	4609.5	*L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137517 N. TROY	115	137527	PROSPCT	115	1	1152						
			Open 137517 N. TROY	115	137527	PROSPCT	115	1		0.00000	0.00000	50.7	50.7		
8608	1009.3	4609.5	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286			
			Base Case												
9249	1052.1	4652.4	L: 126295 RAINEY	345	126561	8E DUM	138	8		17.7	252.0	0.22266			

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9285	1203.5	4803.8	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	564.1	861.0	0.24671				
			Base Case												
9286	1212.9	4813.2	L: 126304 W 49 ST	345	126517	REACM51	345	1	-561.8	-861.0	-0.24671				
			Base Case												
9287	1212.9	4813.2	L: 126304 W 49 ST	345	126518	REACM52	345	2	-561.8	-861.0	-0.24671				
			Base Case												
9288	1213.0	4813.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SEAB&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
9289	1213.0	4813.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SEABROOK												
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
9290	1213.1	4813.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
9291	1213.1	4813.4	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
9292	1213.4	4813.7	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SALEM												
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW	dispatch								
9293	1213.5	4813.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7	
			C:GEN:IND PT 3-New												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	0.02075	506.2	531.3	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			-0.00025	-0.04128	-1009.3	-1059.4	
9294	1213.6	4813.9	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:PEACHBTM												
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0	MW	dispatch								
9295	1213.6	4813.9	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:IND PT 3												
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch								
9296	1213.6	4813.9	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7	
			C:GEN:IND PT 2-New												
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1			0.00000	-0.02033	-493.4	-518.0	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2			-0.00025	-0.04066	-986.7	-1036.1	
9297	1213.6	4813.9	*L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:IND PT 2												
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8	MW	dispatch								
9682	1215.7	4816.0	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.6	300.0	0.12372				
			Base Case												
11143	1241.6	4841.9	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-272.1	-317.0	-0.03620	-0.01772	-157.9	-179.9	
			C:SIN:440												
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			-0.10852	0.17024	1052.3	1263.7	
11144	1241.6	4841.9	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-272.1	-317.0	-0.03620	-0.01772	-157.9	-179.9	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							

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			Open 126286	GOWANUSN	345	126590	GOWANUS	41SR	345	BY		-0.01431	-0.08327	239.7	132.5		
			Open 126286	GOWANUSN	345	126427	GOWNUS1T		138	1		0.12821	0.00000	231.0	231.0		
			Open 126286	GOWANUSN	345	126620	GATE 1		138	1		-0.00953	-0.00000	49.7	49.7		
			Open 126286	GOWANUSN	345	126621	GATE 2		138	1		-0.00953	-0.00000	49.7	49.7		
			Open 121003	STARS-01003	13.8	126286	GOWANUSN		345	03	NA						
			Open 126283	GOTHLS N	345	126286	GOWANUSN		345	1		-0.00238	0.01531	-87.4	-67.7		
11151	1332.3	4932.6	L: 126295	RAINEY	345	126561	8E DUM		138	8		43.8	342.0	0.22381	0.22266	17.7	314.4
			C:BUS:GOWANUS_S_345														1724
			Open 126287	GOWANUSS	345	126591	GOWANUS	42SR	345	BY		-0.00488	-0.08266	239.7	129.6		
			Open 126287	GOWANUSS	345	126429	GOWNUS2T		138	1		0.14151	0.00000	228.7	228.7		
			Open 126287	GOWANUSS	345	126622	GATE 3		138	1		0.00000	0.00000	49.7	49.7		
			Open 126287	GOWANUSS	345	126623	GATE 4		138	1		0.00000	0.00000	44.5	44.5		
			Open 126285	GOTHLS S	345	126287	GOWANUSS		345	1		-0.00980	-0.07619	522.9	421.4		
			Open 126286	GOWANUSN	345	126287	GOWANUSS		345	1		0.00738	0.00000	0.5	0.5		
11152	1333.7	4934.0	L: 126295	RAINEY	345	126561	8E DUM		138	8		43.4	342.0	0.22391	0.22266	17.7	314.7
			C:BUS:GOWANUS_N_345														1723
			Open 126286	GOWANUSN	345	126287	GOWANUSS		345	1		-0.00976	-0.00647	40.3	31.7		
			Open 126286	GOWANUSN	345	126590	GOWANUS	41SR	345	BY		-0.01465	-0.08327	239.7	128.7		
			Open 126286	GOWANUSN	345	126427	GOWNUS1T		138	1		0.13119	0.00000	231.0	231.0		
			Open 126286	GOWANUSN	345	126620	GATE 1		138	1		-0.00976	-0.00000	49.7	49.7		
			Open 126286	GOWANUSN	345	126621	GATE 2		138	1		-0.00976	-0.00000	49.7	49.7		
			Open 121003	STARS-01003	13.8	126286	GOWANUSN		345	03	NA						
			Open 126283	GOTHLS N	345	126286	GOWANUSN		345	1		-0.00239	0.01531	-87.4	-67.0		
11153	1335.9	4936.2	L: 126295	RAINEY	345	126562	8W DUM		138	8		89.5	372.0	0.21150	0.21150	73.0	355.5
			C:126298	SPRBROOK	345	126301	TREMONT		345	1	1456						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1		0.03349	0.00000	491.2	491.2		
11154	1336.4	4936.7	L: 126295	RAINEY	345	126562	8W DUM		138	8		89.4	372.0	0.21150	0.21150	73.0	355.6
			C:BUS:TREMONT_345														1731
			Open 126466	SECT 11	138	126470	38X01 T		138	1		0.03349	-0.00002	122.2	122.2		
			Open 126466	SECT 11	138	126471	38X02 T		138	1		0.03349	0.00002	122.2	122.3		
			Open 126462	PARK TR1	138	126466	SECT 11		138	1	NA						
			Open 126467	SECT 12	138	126472	38X03 T		138	1		0.03349	-0.00002	124.4	124.4		
			Open 126467	SECT 12	138	126473	38X04 T		138	1		0.03349	0.00002	120.1	120.1		
			Open 126463	PARK TR2	138	126467	SECT 12		138	1	NA						
			Open 126301	TREMONT	345	126462	PARK TR1		138	1	NA						
			Open 126301	TREMONT	345	126463	PARK TR2		138	1	NA						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1		-0.00401	0.00000	2.3	2.3		
11155	1348.7	4949.0	L: Interface	16 I-TO-J								3600.3	4949.0	1.00000			
			Base Case														
11156	1353.9	4954.2	L: 126295	RAINEY	345	126562	8W DUM		138	8		85.7	372.0	0.21150	0.21150	73.0	359.3
			C:SPRN-ACDMY														1879
			Open 126298	SPRBROOK	345	126847	ACADEMY		345	1		0.03160	0.00000	401.5	401.5		
			Open 126780	SCK-PARW	138	126847	ACADEMY		345	1		0.00000	0.00000	-200.4	-200.4		
			Open 126781	SCK-PARE	138	126847	ACADEMY		345	1		-0.03564	0.00000	0.6	0.6		
11157	1380.4	4980.7	L: 126295	RAINEY	345	126561	8E DUM		138	8		34.6	342.0	0.22266	0.22266	17.7	325.1
			C:126298	SPRBROOK	345	126301	TREMONT		345	1	1456						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1		0.03349	0.00000	491.2	491.2		

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			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462							
			Open 126374 DUN SO1R		138 126385 E179 ST	138	1				0.02750	-0.00000	234.1	234.1	
11160	1385.2	4985.5	L: 126295 RAINNEY	345	126562 8W DUM	138	8		78.8	372.0	0.21164		0.21150	73.0	366.0
			C:SER:W90&W74					1682							
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00093	-0.16165	-977.7	-1201.7	
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01523	-0.00008	322.2	322.1	
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00060	-0.00158	42.8	40.7	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00319	0.00000	2.9	2.9	
11161	1385.4	4985.7	L: 126295 RAINNEY	345	126562 8W DUM	138	8		78.6	372.0	0.21180		0.21150	73.0	366.0
			C:SER:W89&W73					1683							
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00095	-0.32474	-1059.4	-1509.3	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01338	-0.00008	341.7	341.6	
11162	1388.3	4988.6	*L: 126295 RAINNEY	345	126562 8W DUM	138	8		77.6	372.0	0.21205		0.21150	73.0	366.6
			C:SIN:120					1767							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00334	0.07384	778.5	881.0	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00334	0.07384	778.5	881.0	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00141	-0.04128	39.3	-18.0	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch						
11178	1397.9	4998.2	L: 126295 RAINNEY	345	126561 8E DUM	138	8		30.7	342.0	0.22266		0.22266	17.7	329.0
			C:SPRN-ACDMY					1879							
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				0.03247	0.00000	401.5	401.5	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				-0.03663	0.00000	0.6	0.6	
12996	1426.6	5026.9	L: 126295 RAINNEY	345	126561 8E DUM	138	8		24.3	342.0	0.22266		0.22266	17.7	335.4
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462							
			Open 126374 DUN SO1R		138 126385 E179 ST	138	1				0.02826	-0.00000	234.1	234.1	
12997	1428.4	5028.7	L: 126295 RAINNEY	345	126561 8E DUM	138	8		23.7	342.0	0.22282		0.22266	17.7	335.8
			C:SER:W90&W74					1682							
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00096	-0.16165	-977.7	-1208.6	
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01565	-0.00008	322.2	322.1	
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00062	-0.00158	42.8	40.6	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00328	0.00000	2.9	2.9	
12998	1428.5	5028.8	L: 126295 RAINNEY	345	126561 8E DUM	138	8		23.5	342.0	0.22298		0.22266	17.7	335.8
			C:SER:W89&W73					1683							
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00098	-0.32474	-1059.4	-1523.3	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01375	-0.00008	341.7	341.6	
13001	1431.4	5031.7	*L: 126295 RAINNEY	345	126561 8E DUM	138	8		22.5	342.0	0.22323		0.22266	17.7	336.4
			C:SIN:120					1767							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00344	0.07384	778.5	884.2	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00344	0.07384	778.5	884.2	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00145	-0.04128	39.3	-19.7	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA					

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			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464										
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.22267	0.25239	558.6	972.6				
14859	1640.5	5240.8	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	160	686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	160										
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.22267	0.25239	558.6	972.6				
14860	1640.5	5240.8	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	1464	686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464										
			Open 126601 REAC72		345	126641	MOTT HAVEN	345	4			0.22267	0.25239	558.6	972.6				
14861	1640.5	5240.8	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	160	686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	160										
			Open 126266 DUNWODIE		345	126601	REAC72	345	SR			0.22267	0.25239	558.6	972.6				
14862	1661.6	5261.9	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	159	683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	159										
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.22145	0.25419	562.4	984.8				
14863	1661.6	5261.9	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	159	683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	159										
			Open 126266 DUNWODIE		345	126600	REAC71	345	SR			0.22145	0.25419	562.4	984.8				
14864	1661.6	5261.9	L: 126601 REAC72	345	126641	MOTT HAVEN	345	4	1463	683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1463										
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.22145	0.25419	562.4	984.8				
14865	1661.6	5261.9	L: 126266 DUNWODIE	345	126601	REAC72	345	SR	1463	683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1463										
			Open 126600 REAC71		345	126641	MOTT HAVEN	345	3			0.22145	0.25419	562.4	984.8				
14867	1727.2	5327.5	L: 125020 DANSKAMA	115	125021	DC CBLTP	115	1	77	297.0	350.0	0.03070		0.01617	156.6	184.5			
			C:125015 AC CBLTP	115	125020	DANSKAMA	115	1	77										
			Open 125015 AC CBLTP		115	125020	DANSKAMA	115	1			-0.93147	-0.01560	-150.7	-177.7				
14868	1736.0	5336.3	L: 125020 DANSKAMA	115	125021	DC CBLTP	115	1	78	296.7	350.0	0.03070		0.01617	156.6	184.7			
			C:125015 AC CBLTP	115	125041	N.CHELSE	115	1	78										
			Open 125015 AC CBLTP		115	125041	N.CHELSE	115	1			0.93147	0.01560	150.4	177.5				
14870	1763.7	5364.0	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	197	667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	197										
			Open 126298 SPRBROOK		345	126518	REACM52	345	SR			0.18540	0.24671	564.1	999.2				
14871	1763.7	5364.0	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	196	667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	196										
			Open 126298 SPRBROOK		345	126517	REACM51	345	SR			0.18540	0.24671	564.1	999.2				
14872	1763.7	5364.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	196	667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126517	REACM51	345	SR	196										
			Open 126298 SPRBROOK		345	126517	REACM51	345	SR			0.18540	0.24671	564.1	999.2				
14873	1763.7	5364.0	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3	197	667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126518	REACM52	345	SR	197										
			Open 126298 SPRBROOK		345	126518	REACM52	345	SR			0.18540	0.24671	564.1	999.2				
14874	1765.2	5365.5	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	1459	666.6	1196.0	0.29993		0.25419	562.4	1011.1			
			C:126304 W 49 ST	345	126518	REACM52	345	2	1459										
			Open 126304 W 49 ST		345	126518	REACM52	345	2			-0.18540	-0.24671	-561.8	-997.3				
14875	1765.2	5365.5	L: 126266 DUNWODIE	345	126600	REAC71	345	SR	1458	666.6	1196.0	0.29993		0.25419	562.4	1011.1			
			C:126304 W 49 ST	345	126517	REACM51	345	1	1458										
			Open 126304 W 49 ST		345	126517	REACM51	345	1			0.18540	0.24671	564.1	999.2				

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14880	1791.7	5392.0	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.4	1196.0	0.29781	0.25239	558.6	1010.8
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 197						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.18409	0.24671	564.1	1006.1
14881	1791.7	5392.0	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.4	1196.0	0.29781	0.25239	558.6	1010.8
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 196						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.18409	0.24671	564.1	1006.1
14882	1793.2	5393.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126517 REACM51	345	1 1458						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18409	-0.24671	-561.8	-1004.2
14883	1793.2	5393.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126518 REACM52	345	2 1459						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18409	-0.24671	-561.8	-1004.2
14884	1793.2	5393.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126518 REACM52	345	2 1459						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18409	-0.24671	-561.8	-1004.2
14885	1793.2	5393.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126517 REACM51	345	1 1458						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18409	-0.24671	-561.8	-1004.2
14886	1929.9	5530.2	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-277.3	-783.0	-0.26202			
			Base Case										
14887	1938.1	5538.4	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1233.8	1935.0	0.36178			
			Base Case										
14888	2140.0	5740.3	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4	-259.7	-783.0	-0.24455			
			Base Case										
14889	2235.1	5835.4	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	627.9	1196.0	0.25419	0.25419	562.4	1130.6
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14890	2235.1	5835.4	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	627.9	1196.0	0.25419	0.25419	562.4	1130.6
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14891	2251.5	5851.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04507	-0.02117	-457.8	-505.4
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 69						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.17024	1052.3	1435.6
14892	2251.5	5851.8	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04507	-0.02117	-457.8	-505.4
			C:SIN:440				1783						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.17024	1052.3	1435.6
14893	2268.2	5868.5	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	623.5	1196.0	0.25239	0.25239	558.6	1131.0
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14894	2268.2	5868.5	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	623.5	1196.0	0.25239	0.25239	558.6	1131.0
			C:GEN:SCS AST				1652						





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				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			0.20413	0.24671	564.1	1190.9				
21922	2542.3	6142.6	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		678.8	1434.0	0.29707		0.24671	564.1	1191.3			
				C:126304 W 49 ST	345	126517 REACM51	345	1	1458										
				Open 126304 W 49 ST		345 126517 REACM51		345	1			-0.20413	-0.24671	-561.8	-1189.0				
21923	2542.3	6142.6	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		678.8	1434.0	0.29707		0.24671	564.1	1191.3			
				C:126304 W 49 ST	345	126518 REACM52	345	2	1459										
				Open 126304 W 49 ST		345 126518 REACM52		345	2			-0.20413	-0.24671	-561.8	-1189.0				
21974	2548.5	6148.8	L:	126304 W 49 ST	345	126518 REACM52	345	2		-676.9	-1434.0	-0.29707		-0.24671	-561.8	-1190.5			
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			-0.20413	0.24671	564.1	1192.8				
21975	2548.5	6148.8	L:	126304 W 49 ST	345	126517 REACM51	345	1		-676.9	-1434.0	-0.29707		-0.24671	-561.8	-1190.5			
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										
				Open 126298 SPRBROOK		345 126518 REACM52		345	SR			-0.20413	0.24671	564.1	1192.8				
21984	2550.1	6150.4	L:	126304 W 49 ST	345	126517 REACM51	345	1		-676.4	-1434.0	-0.29707		-0.24671	-561.8	-1190.9			
				C:126304 W 49 ST	345	126518 REACM52	345	2	1459										
				Open 126304 W 49 ST		345 126518 REACM52		345	2			0.20413	-0.24671	-561.8	-1190.9				
21985	2550.1	6150.4	L:	126304 W 49 ST	345	126518 REACM52	345	2		-676.4	-1434.0	-0.29707		-0.24671	-561.8	-1190.9			
				C:126304 W 49 ST	345	126517 REACM51	345	1	1458										
				Open 126304 W 49 ST		345 126517 REACM51		345	1			0.20413	-0.24671	-561.8	-1190.9				
22024	2559.6	6159.9	L:	125001 ROCK TAV	345	126297 RAMAPO	345	1		1506.4	2283.0	0.30339		0.17024	1052.3	1488.0			
				C:SIN:430					1782										
				Open 125002 ROSETON		345 126281 FISHKILL		345	1			0.36806	0.36178	1233.8	2159.8				
22025	2559.6	6159.9	L:	125001 ROCK TAV	345	126297 RAMAPO	345	1		1506.4	2283.0	0.30339		0.17024	1052.3	1488.0			
				C:125002 ROSETON	345	126281 FISHKILL	345	1	72										
				Open 125002 ROSETON		345 126281 FISHKILL		345	1			0.36806	0.36178	1233.8	2159.8				
22154	2611.0	6211.3	L:	126385 E179 ST	138	126445 HG 4	138	1		66.9	179.0	0.04294							
				Base Case															
22157	2613.1	6213.4	L:	126385 E179 ST	138	126442 HG 1	138	1		66.8	179.0	0.04294							
				Base Case															
22164	2620.2	6220.4	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
				Open 126266 DUNWODIE		345 126600 REAC71		345	SR			0.18193	0.25419	562.4	1228.4				
22165	2620.2	6220.4	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
				Open 126266 DUNWODIE		345 126600 REAC71		345	SR			0.18193	0.25419	562.4	1228.4				
22166	2620.2	6220.4	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
				Open 126600 REAC71		345 126641 MOTT HAVEN		345	3			0.18193	0.25419	562.4	1228.4				
22167	2620.2	6220.4	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
				Open 126600 REAC71		345 126641 MOTT HAVEN		345	3			0.18193	0.25419	562.4	1228.4				
22168	2622.7	6223.0	L:	126295 RAINY	345	126641 MOTT HAVEN	345	3		-385.1	-1196.0	-0.30917		-0.26202	-277.3	-964.5			
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			-0.19112	0.24671	564.1	1211.1				
22169	2622.7	6223.0	L:	126295 RAINY	345	126641 MOTT HAVEN	345	3		-385.1	-1196.0	-0.30917		-0.26202	-277.3	-964.5			
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										

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			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				0.18165	0.25239	558.6	1221.5
22178	2626.7	6227.0	L: 126298 SPRBROOK	345	126518 REACM52	345	SR	665.5	1434.0	0.29256	0.24671	564.1	1212.1	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				0.18165	0.25239	558.6	1221.5
22179	2626.7	6227.0	L: 126298 SPRBROOK	345	126517 REACM51	345	SR	665.5	1434.0	0.29256	0.24671	564.1	1212.1	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				0.18165	0.25239	558.6	1221.5
22182	2628.1	6228.4	L: 126304 W 49 ST	345	126517 REACM51	345	1	-664.1	-1434.0	-0.29296	-0.24671	-561.8	-1210.1	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	159						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.18193	0.25419	562.4	1230.4
22183	2628.1	6228.4	L: 126304 W 49 ST	345	126518 REACM52	345	2	-664.1	-1434.0	-0.29296	-0.24671	-561.8	-1210.1	
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	159						
			Open 126266 DUNWODIE	345	126600 REAC71	345	SR				-0.18193	0.25419	562.4	1230.4
22184	2628.1	6228.4	L: 126304 W 49 ST	345	126518 REACM52	345	2	-664.1	-1434.0	-0.29296	-0.24671	-561.8	-1210.1	
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				-0.18193	0.25419	562.4	1230.4
22185	2628.1	6228.4	L: 126304 W 49 ST	345	126517 REACM51	345	1	-664.1	-1434.0	-0.29296	-0.24671	-561.8	-1210.1	
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463						
			Open 126600 REAC71	345	126641 MOTT HAVEN	345	3				-0.18193	0.25419	562.4	1230.4
22190	2634.6	6234.9	L: 126304 W 49 ST	345	126518 REACM52	345	2	-663.2	-1434.0	-0.29256	-0.24671	-561.8	-1211.8	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.18165	0.25239	558.6	1223.5
22191	2634.6	6234.9	L: 126304 W 49 ST	345	126517 REACM51	345	1	-663.2	-1434.0	-0.29256	-0.24671	-561.8	-1211.8	
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641 MOTT HAVEN	345	4				-0.18165	0.25239	558.6	1223.5
22192	2634.6	6234.9	L: 126304 W 49 ST	345	126518 REACM52	345	2	-663.2	-1434.0	-0.29256	-0.24671	-561.8	-1211.8	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	160						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.18165	0.25239	558.6	1223.5
22193	2634.6	6234.9	L: 126304 W 49 ST	345	126517 REACM51	345	1	-663.2	-1434.0	-0.29256	-0.24671	-561.8	-1211.8	
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	160						
			Open 126266 DUNWODIE	345	126601 REAC72	345	SR				-0.18165	0.25239	558.6	1223.5
22214	2644.0	6244.3	L: 126353 ASTORIA WEST	138	126446 HG 5	138	1	66.0	197.0	0.04953				
			Base Case											
22285	2737.3	6337.6	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1370.2	-2384.0	-0.37037	-0.32474	-1059.4	-1948.3	
			C:SER:F39&Y87					1681						
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				-0.14272	0.16039	1159.0	1598.0
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.14206	-0.16007	-1023.5	-1461.6
			Open 126305 WOOD A	345	130758 WOODA345	345	1	NA						
			Open 130758 WOODA345	345	130865 WOODS115	115	1				-0.03358	0.00000	-0.0	-0.0
22286	2737.3	6337.6	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1370.2	-2384.0	-0.37037	-0.32474	-1059.4	-1948.3	
			C:BUS:WOODA_345					1717						
			Open 126305 WOOD A	345	130758 WOODA345	345	1				0.14206	0.00033	135.5	136.4
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				-0.28478	0.16039	1159.0	1598.0
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				0.10849	0.00000	-0.0	-0.0
22295	2759.4	6359.7	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1369.5	-2384.0	-0.36765	-0.32474	-1059.4	-1955.5	
			C:126281 FISHKILL	345	126305 WOOD A	345	1	175						
			Open 126281 FISHKILL	345	126305 WOOD A	345	1				0.26756	0.16039	1159.0	1601.6

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			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
22309	2823.2	6423.5	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-419.6	-1120.0	-0.24808	-0.24808	-414.4 -1114.8
			C:SIN:130									1768	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1	0.00000	0.07384	778.5	987.0	
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2	0.00000	0.07384	778.5	987.0	
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1	0.00000	-0.04128	39.3	-77.2	
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch				
22310	2831.7	6432.0	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1340.1	-2384.0	-0.36864	-0.32474	-1059.4 -1979.0
			C:126293 PL VILLW	345	126305	WOOD A	345	1					182
			Open 126293 PL VILLW	345	126305	WOOD A	345	1	0.27429	-0.16007	-1023.5	-1476.7	
22311	2840.3	6440.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4 -1119.0
			C:GEN:SEABROOK										1672
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
22312	2840.3	6440.6	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.4	-1120.0	-0.24808	-0.24808	-414.4 -1119.0
			C:GEN:SEAB&OMS										1674
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus	102869	SBRK G1	25.0	1318.0	MW	dispatch				
22313	2840.4	6440.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.3	-1120.0	-0.24808	-0.24808	-414.4 -1119.1
			C:GEN:MILLST 3										1671
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
22314	2840.4	6440.7	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.3	-1120.0	-0.24808	-0.24808	-414.4 -1119.1
			C:GEN:MLS3&OMS										1673
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2	0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch				
22315	2840.9	6441.2	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.2	-1120.0	-0.24811	-0.24808	-414.4 -1119.2
			C:GEN:IND PT 3-New										1874
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1	0.00000	0.02075	506.2	565.1	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2	0.00072	-0.04128	-1009.3	-1126.6	
22316	2840.9	6441.2	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.2	-1120.0	-0.24808	-0.24808	-414.4 -1119.2
			C:GEN:SALEM										1666
			Remove unit 1 from bus	36	SALEM-G1	22.0	1107.4	MW	dispatch				
22317	2840.9	6441.2	*L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1	-415.1	-1120.0	-0.24811	-0.24808	-414.4 -1119.2
			C:GEN:IND PT 2-New										1873
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1	0.00000	-0.02033	-493.4	-551.1	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2	0.00072	-0.04066	-986.7	-1102.3	
24162	2873.8	6474.1	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1316.9	-2384.0	-0.37131	-0.32474	-1059.4 -1992.6
			C:BUS:PLVILLW_345										1719
			Open 126293 PL VILLW	345	126305	WOOD A	345	1	0.28350	-0.16007	-1023.5	-1483.5	
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1	0.75372	-0.00158	42.8	38.3	
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1	0.11593	0.00000	2.9	2.9	
24162	2882.0	6482.2	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1316.9	-2384.0	-0.37131	-0.32474	-1059.4 -1992.6

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			C:126304 W 49 ST	345	126518 REACM52	345	2	1459						
			Open 126304 W 49 ST		345 126518 REACM52		345	2				0.17838	-0.24671	-561.8 -1276.6
24167	2897.6	6497.9	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4		-359.9	-1196.0	-0.28856		-0.24455	-259.7 -968.3
			C:126304 W 49 ST	345	126517 REACM51	345	1	1458						
			Open 126304 W 49 ST		345 126517 REACM51		345	1				0.17838	-0.24671	-561.8 -1276.6
24172	2944.2	6544.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1		1801.5	3137.0	0.45361		0.36178	1233.8 2299.0
			C:SIN:440					1783						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345	1				0.53943	0.17024	1052.3 1553.5
24173	2944.2	6544.5	L: 125002 ROSETON	345	126281 FISHKILL	345	1		1801.5	3137.0	0.45361		0.36178	1233.8 2299.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345	1				0.53943	0.17024	1052.3 1553.5
24178	2977.4	6577.7	L: 126353 ASTORIA WEST	138	126587 HG6 TAP2	138	1		67.6	197.0	0.04347			
			Base Case											

# DunwoodieSouth

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 8:40  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-SENY.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 24178  
 First violation - -1825.5 MW.

Study transfer. From GHI\_EXPORT To J\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 24178 violations

Interface-1 Interface 14 DUNWOODIE-SO Init.Flow= 4820.67 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	PreShift	MW	TDF	PTDF	=Base Case Flow=
			C: Contingency description	Flow	Rating		LODF	Init Final
1	-1825.5	2995.1	L: 125015 AC CBLTP C:125020 DANSKAMA Open 125020 DANSKAMA	115 125041 N.CHELSE 115 1 87 115 125021 DC CBLTP 115 1	295.9	240.0	0.03063	0.01560 150.4 121.9
2	-1819.3	3001.3	L: 125015 AC CBLTP C:125021 DC CBLTP Open 125021 DC CBLTP	115 125041 N.CHELSE 115 1 91 115 125041 N.CHELSE 115 1	295.7	240.0	0.03063	0.01560 150.4 122.0
3	439.0	5259.7	L: 126481 RAINEY8W Base Case	138 126562 8W DUM 138 1	-163.1	-256.0	-0.21150	
4	440.2	5260.9	L: 126481 RAINEY8W Base Case	138 126507 VERNON-W 138 1	162.9	256.0	0.21150	
5	590.5	5411.2	L: 126480 RAINEY8E Base Case	138 126506 VERNON-E 138 1	120.3	251.0	0.22135	
6	592.8	5413.4	L: 126480 RAINEY8E Base Case	138 126561 8E DUM 138 1	-120.8	-252.0	-0.22135	
7	626.5	5447.2	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 125041 N.CHELSE 115 1 77 115 125020 DANSKAMA 115 1	296.8	316.0	0.03070	0.01617 156.4 166.5
8	635.3	5455.9	L: 125021 DC CBLTP C:125015 AC CBLTP Open 125015 AC CBLTP	115 125041 N.CHELSE 115 1 78 115 125041 N.CHELSE 115 1	296.5	316.0	0.03070	-0.93147 -0.01560 -150.7 -160.5 0.01617 156.4 166.7
9	658.5	5479.1	L: 126481 RAINEY8W C:GEN:NYPA_AS Remove unit 1 from bus 147788 POLETGT2 Remove unit 1 from bus 147789 POLETSTG Remove unit 1 from bus 147790 POLETGT1	138 126562 8W DUM 138 1 1651 18.0 128.3 MW dispatch 18.0 128.3 MW dispatch 18.0 128.3 MW dispatch	-232.7	-372.0	-0.21150	0.93147 0.01560 150.4 160.3 -0.21150 -163.1 -302.4

## DunwoodieSouth

						Remove unit 1 from bus 147788 POLETGT2	18.0	128.3	MW	dispatch			
						Remove unit 1 from bus 147789 POLETSTG	18.0	128.3	MW	dispatch			
						Remove unit 1 from bus 147790 POLETGT1	18.0	128.3	MW	dispatch			
13	804.5	5625.2	L: 125002 ROSETON	345	125190	ROSE GN1	24.0	1			-414.4	-614.0	-0.24808
			Base Case										
14	850.4	5671.1	L: 125002 ROSETON	345	125192	ROSE GN2	24.0	2			-416.2	-614.0	-0.23263
			Base Case										
15	862.4	5683.1	L: 126481 RAINEY8W	138	126562	8W DUM	138	1			-188.6	-372.0	-0.21262
			C:BUS:GOWANUS_S_345										
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY			0.00477	-0.08266	239.7
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1			-0.13829	0.00000	228.7
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1			-0.00000	0.00000	49.7
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1			-0.00000	0.00000	44.5
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1			0.00958	-0.07619	522.9
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1			-0.00717	0.00000	0.5
16	863.6	5684.2	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1			188.4	372.0	0.21262
			C:BUS:GOWANUS_S_345										
			Open 126287 GOWANUSS	345	126591	GOWANUS 42SR	345	BY			-0.00477	-0.08266	239.7
			Open 126287 GOWANUSS	345	126429	GOWNUS2T	138	1			0.13829	0.00000	228.7
			Open 126287 GOWANUSS	345	126622	GATE 3	138	1			-0.00000	0.00000	49.7
			Open 126287 GOWANUSS	345	126623	GATE 4	138	1			-0.00000	0.00000	44.5
			Open 126285 GOTHLS S	345	126287	GOWANUSS	345	1			-0.00958	-0.07619	522.9
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1			0.00717	0.00000	0.5
17	864.0	5684.7	L: 126481 RAINEY8W	138	126562	8W DUM	138	1			-188.2	-372.0	-0.21271
			C:BUS:GOWANUS_N_345										
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1			0.00953	-0.00647	40.3
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY			0.01431	-0.08327	239.7
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1			-0.12821	0.00000	231.0
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1			0.00953	-0.00000	49.7
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1			0.00953	-0.00000	49.7
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03			NA		
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			0.00238	0.01531	-87.4
18	865.2	5685.9	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1			188.0	372.0	0.21271
			C:BUS:GOWANUS_N_345										
			Open 126286 GOWANUSN	345	126287	GOWANUSS	345	1			-0.00953	-0.00647	40.3
			Open 126286 GOWANUSN	345	126590	GOWANUS 41SR	345	BY			-0.01431	-0.08327	239.7
			Open 126286 GOWANUSN	345	126427	GOWNUS1T	138	1			0.12821	0.00000	231.0
			Open 126286 GOWANUSN	345	126620	GATE 1	138	1			-0.00953	-0.00000	49.7
			Open 126286 GOWANUSN	345	126621	GATE 2	138	1			-0.00953	-0.00000	49.7
			Open 121003 STARS-01003	13.8	126286	GOWANUSN	345	03			NA		
			Open 126283 GOTHLS N	345	126286	GOWANUSN	345	1			-0.00238	0.01531	-87.4
19	865.3	5685.9	L: 126295 RAINEY	345	126562	8W DUM	138	8			73.0	256.0	0.21150
			Base Case										
20	867.8	5688.4	L: 126266 DUNWODIE	345	126600	REAC71	345	SR			562.4	783.0	0.25419
			Base Case										
21	867.8	5688.4	L: 126600 REAC71	345	126641	MOTT HAVEN	345	3			562.4	783.0	0.25419

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			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1				-0.13119	0.00000	231.0	231.0
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1				0.00976	-0.00000	49.7	49.7
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1				0.00976	-0.00000	49.7	49.7
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA						
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				0.00239	0.01531	-87.4	-74.0
24	879.2	5699.9	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	146.4	342.0	0.22250		0.22135	120.3	314.9
			C:BUS:GOWANUS_S_345											1724
			Open 126287 GOWANUSS	345	126591 GOWANUS 42SR	345	BY				-0.00488	-0.08266	239.7	167.0
			Open 126287 GOWANUSS	345	126429 GOWNUS2T	138	1				0.14151	0.00000	228.7	228.7
			Open 126287 GOWANUSS	345	126622 GATE 3	138	1				0.00000	0.00000	49.7	49.7
			Open 126287 GOWANUSS	345	126623 GATE 4	138	1				0.00000	0.00000	44.5	44.5
			Open 126285 GOTHLS S	345	126287 GOWANUSS	345	1				-0.00980	-0.07619	522.9	455.9
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				0.00738	0.00000	0.5	0.5
25	880.8	5701.5	L: 126480 RAINEY8E	138	126506 VERNON-E	138	1	145.9	342.0	0.22260		0.22135	120.3	315.3
			C:BUS:GOWANUS_N_345											1723
			Open 126286 GOWANUSN	345	126287 GOWANUSS	345	1				-0.00976	-0.00647	40.3	34.6
			Open 126286 GOWANUSN	345	126590 GOWANUS 41SR	345	BY				-0.01465	-0.08327	239.7	166.4
			Open 126286 GOWANUSN	345	126427 GOWNUS1T	138	1				0.13119	0.00000	231.0	231.0
			Open 126286 GOWANUSN	345	126620 GATE 1	138	1				-0.00976	-0.00000	49.7	49.7
			Open 126286 GOWANUSN	345	126621 GATE 2	138	1				-0.00976	-0.00000	49.7	49.7
			Open 121003 STARS-01003	13.8	126286 GOWANUSN	345	03	NA						
			Open 126283 GOTHLS N	345	126286 GOWANUSN	345	1				-0.00239	0.01531	-87.4	-73.9
26	889.2	5709.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	558.6	783.0	0.25239				
			Base Case											
27	889.2	5709.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	558.6	783.0	0.25239				
			Base Case											
28	909.7	5730.4	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-179.6	-372.0	-0.21150		-0.21150	-163.1	-355.5
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				-0.03349	0.00000	491.2	491.2
29	910.1	5730.8	L: 126481 RAINEY8W	138	126562 8W DUM	138	1	-179.5	-372.0	-0.21150		-0.21150	-163.1	-355.6
			C:BUS:TREMONT_345											1731
			Open 126466 SECT 11	138	126470 38X01 T	138	1				-0.03349	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1				-0.03349	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466 SECT 11	138	1	NA						
			Open 126467 SECT 12	138	126472 38X03 T	138	1				-0.03349	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473 38X04 T	138	1				-0.03349	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467 SECT 12	138	1	NA						
			Open 126301 TREMONT	345	126462 PARK TR1	138	1	NA						
			Open 126301 TREMONT	345	126463 PARK TR2	138	1	NA						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.00401	0.00000	2.3	2.3
30	910.9	5731.5	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	179.4	372.0	0.21150		0.21150	162.9	355.5
			C:126298 SPRBROOK	345	126301 TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301 TREMONT	345	1				0.03349	0.00000	491.2	491.2
31	911.3	5731.9	L: 126481 RAINEY8W	138	126507 VERNON-W	138	1	179.3	372.0	0.21150		0.21150	162.9	355.6
			C:BUS:TREMONT_345											1731
			Open 126466 SECT 11	138	126470 38X01 T	138	1				0.03349	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471 38X02 T	138	1				0.03349	0.00002	122.2	122.2

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			Open 126466 SECT 11	138	126470	38X01 T	138	1				-0.03442	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471	38X02 T	138	1				-0.03442	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466	SECT 11	138	1			NA				
			Open 126467 SECT 12	138	126472	38X03 T	138	1				-0.03442	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473	38X04 T	138	1				-0.03442	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467	SECT 12	138	1			NA				
			Open 126301 TREMONT	345	126462	PARK TR1	138	1			NA				
			Open 126301 TREMONT	345	126463	PARK TR2	138	1			NA				
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				0.00412	0.00000	2.3	2.3
34	925.2	5745.9	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	137.2	342.0	0.22135		0.22135	120.3	325.1
			C:126298 SPRBROOK	345	126301	TREMONT	345	1	1456						
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				0.03442	0.00000	491.2	491.2
35	925.6	5746.3	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	137.1	342.0	0.22135		0.22135	120.3	325.2
			C:BUS:TREMONT_345						1731						
			Open 126466 SECT 11	138	126470	38X01 T	138	1				0.03442	-0.00002	122.2	122.2
			Open 126466 SECT 11	138	126471	38X02 T	138	1				0.03442	0.00002	122.2	122.3
			Open 126462 PARK TR1	138	126466	SECT 11	138	1			NA				
			Open 126467 SECT 12	138	126472	38X03 T	138	1				0.03442	-0.00002	124.4	124.4
			Open 126467 SECT 12	138	126473	38X04 T	138	1				0.03442	0.00002	120.1	120.1
			Open 126463 PARK TR2	138	126467	SECT 12	138	1			NA				
			Open 126301 TREMONT	345	126462	PARK TR1	138	1			NA				
			Open 126301 TREMONT	345	126463	PARK TR2	138	1			NA				
			Open 126298 SPRBROOK	345	126301	TREMONT	345	1				-0.00412	0.00000	2.3	2.3
36	927.6	5748.3	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-175.8	-372.0	-0.21150		-0.21150	-163.1	-359.3
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				-0.03160	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				0.03564	0.00000	0.6	0.6
37	928.8	5749.5	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	175.6	372.0	0.21150		0.21150	162.9	359.3
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				0.03160	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				-0.03564	0.00000	0.6	0.6
38	940.6	5761.2	L: 126480 RAINEY8E	138	126561	8E DUM	138	1	-133.8	-342.0	-0.22135		-0.22135	-120.8	-329.0
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				-0.03247	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				0.03663	0.00000	0.6	0.6
39	942.8	5763.5	L: 126480 RAINEY8E	138	126506	VERNON-E	138	1	133.3	342.0	0.22135		0.22135	120.3	329.0
			C:SPRN-ACDMY						1879						
			Open 126298 SPRBROOK	345	126847	ACADEMY	345	1				0.03247	0.00000	401.5	401.5
			Open 126780 SCK-PARW	138	126847	ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4
			Open 126781 SCK-PARE	138	126847	ACADEMY	345	1				-0.03663	0.00000	0.6	0.6
40	957.1	5777.7	L: 126481 RAINEY8W	138	126562	8W DUM	138	1	-169.6	-372.0	-0.21150		-0.21150	-163.1	-365.6
			C:126374 DUN SOLR	138	126385	E179 ST	138	1	1462						
			Open 126374 DUN SOLR	138	126385	E179 ST	138	1				-0.02750	-0.00000	234.1	234.1
41	959.2	5779.8	L: 126481 RAINEY8W	138	126507	VERNON-W	138	1	169.2	372.0	0.21150		0.21150	162.9	359.3



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44	960.4	5781.1	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	168.7	372.0	0.21164	0.21150	162.9	366.0
			C:SER:W90&W74					1682						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			-0.00093	-0.16165	-977.7	-1133.0
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			0.01523	-0.00008	322.2	322.1
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			0.00060	-0.00158	42.8	41.3
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			-0.00319	0.00000	2.9	2.9
45	960.9	5781.6	L: 126481 RAINY8W	138	126507	VERNON-W	138	1	168.5	372.0	0.21180	0.21150	162.9	366.1
			C:SER:W89&W73					1683						
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			-0.00095	-0.32474	-1059.4	-1371.4
			Open 126343 W73 TAP	345	126372	DUN SO	138	1			0.01338	-0.00008	341.7	341.7
46	963.2	5783.9	*L: 126481 RAINY8W	138	126562	8W DUM	138	1	-167.8	-372.0	-0.21205	-0.21150	-163.1	-366.9
			C:SIN:130					1768						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			-0.00334	0.07384	778.5	849.6
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			-0.00334	0.07384	778.5	849.6
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			0.00141	-0.04128	39.3	-0.4
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch					
50	964.4	5785.0	*L: 126481 RAINY8W	138	126507	VERNON-W	138	1	167.5	372.0	0.21205	0.21150	162.9	366.9
			C:SIN:120					1767						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1			0.00334	0.07384	778.5	849.7
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2			0.00334	0.07384	778.5	849.7
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1			-0.00141	-0.04128	39.3	-0.5
			Open 126263 BUCHANAN S	345	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1		NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2		NA				
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch					
66	969.5	5790.1	L: 126480 RAINY8E	138	126561	8E DUM	138	1	-127.4	-342.0	-0.22135	-0.22135	-120.8	-335.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1462					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1			-0.02826	-0.00000	234.1	234.1
76	971.6	5792.3	L: 126480 RAINY8E	138	126561	8E DUM	138	1	-126.8	-342.0	-0.22151	-0.22135	-120.8	-335.9
			C:SER:W90&W74					1682						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			0.00096	-0.16165	-977.7	-1134.8
			Open 126342 W74 TAP	345	126368	DUN NO	138	1			-0.01565	-0.00008	322.2	322.1
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1			-0.00062	-0.00158	42.8	41.3
			Open 126293 PL VILLW	345	126305	WOOD A	345	1			0.00328	0.00000	2.9	2.9
77	971.7	5792.4	L: 126480 RAINY8E	138	126506	VERNON-E	138	1	126.9	342.0	0.22135	0.22135	120.3	335.4
			C:126374 DUN SO1R	138	126385	E179 ST	138	1	1462					
			Open 126374 DUN SO1R	138	126385	E179 ST	138	1			0.02826	-0.00000	234.1	234.1
80	972.1	5792.8	L: 126480 RAINY8E	138	126561	8E DUM	138	1	-126.5	-342.0	-0.22167	-0.22135	-120.8	-336.0
			C:SER:W89&W73					1683						
			Open 126266 DUNWODIE	345	126292	PL VILLE	345	1			0.00098	-0.32474	-1059.4	-1375.1
			Open 126343 W73 TAP	345	126372	DUN SO	138	1			-0.01375	-0.00008	341.7	341.7
83	973.8	5794.5	L: 126480 RAINY8E	138	126506	VERNON-E	138	1	126.3	342.0	0.22151	0.22135	120.3	335.9
			C:SER:W90&W74					1682						
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1			0.00096	-0.16165	-977.7	-1134.8

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			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch					
110	977.7	5798.4	*L: 126480 RAINEY8E	138	126506	VERNON-E	138	1		125.0	342.0	0.22192	0.22135	120.3	336.7
			C:SIN:120						1767						
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	1		0.00344	0.07384	778.5	850.7		
			Open 126263 BUCHANAN S	345	126291	MILLWOOD	345	2		0.00344	0.07384	778.5	850.7		
			Open 126263 BUCHANAN S	345	126290	LADENTWN	345	1		-0.00145	-0.04128	39.3	-1.0		
			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA					
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA					
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch					
7378	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:125037 MARLBORO	115	125057	W.BALMVL	115	1	118						
			Open 125037 MARLBORO	115	125057	W.BALMVL	115	1		0.00000	0.00132	29.7	31.0		
7379	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:136544 UDG-184	115	148003	CARGR184	115	1	937						
			Open 136544 UDG-184	115	148003	CARGR184	115	1		0.00000	0.00000	-10.7	-10.7		
7380	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:GEN:PICKER 6						1665						
			Remove unit 1 from bus	156683	PIC B G5		24.0	542.0	MW	dispatch					
7381	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137517 N. TROY	115	137543	SYCA-14	115	1	1153						
			Open 137517 N. TROY	115	137543	SYCA-14	115	1		0.00000	-0.00016	-103.8	-104.0		
7382	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:130791 CORN TP1	115	131395	CORN1115	115	1	327						
			Open 130791 CORN TP1	115	131395	CORN1115	115	1		0.00000	0.00000	14.3	14.3		
7383	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:126511 38W03	138	126831	WASH T2	138	1	249						
			Open 126511 38W03	138	126831	WASH T2	138	1		0.00000	0.00000	56.7	56.7		
7384	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:135450 GRDNVL1	115	135462	RDGE-145	115	1	646						
			Open 135450 GRDNVL1	115	135462	RDGE-145	115	1		0.00000	-0.00000	34.2	34.2		
7385	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:125044 REYNOLDS	115	125198	DR CBLTP	115	1	133						
			Open 125044 REYNOLDS	115	125198	DR CBLTP	115	1		0.00000	-0.00609	-29.6	-35.8		
7386	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137906 STONER	115	137911	VAIL TAP	115	1	1262						
			Open 137906 STONER	115	137911	VAIL TAP	115	1		0.00000	0.00008	-11.0	-11.0		
7387	1009.3	5829.9	*L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286	0.25286	44.8	300.0
			C:137517 N. TROY	115	137527	PROSPCT	115	1	1152						
			Open 137517 N. TROY	115	137527	PROSPCT	115	1		0.00000	0.00000	50.7	50.7		
8608	1009.3	5829.9	L: 120801 STARS-00901	13.8	126292	PL VILLE	345	01		44.8	300.0	0.25286			
			Base Case												
9249	1052.1	5872.8	L: 126295 RAINEY	345	126561	8E DUM	138	8		17.7	252.0	0.22266			

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9285	1203.5	6024.2	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	564.1	861.0	0.24671				
			Base Case												
9286	1212.9	6033.6	L: 126304 W 49 ST	345	126517	REACM51	345	1	-561.8	-861.0	-0.24671				
			Base Case												
9287	1212.9	6033.6	L: 126304 W 49 ST	345	126518	REACM52	345	2	-561.8	-861.0	-0.24671				
			Base Case												
9288	1213.0	6033.7	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SEAB&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
9289	1213.0	6033.7	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SEABROOK												
			Remove unit 1 from bus 102869 SBRK G1	25.0	1318.0	MW	dispatch								
9290	1213.1	6033.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
9291	1213.1	6033.8	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2			0.00000	0.00000	-0.0	-0.0	
			Remove unit 3 from bus 103563 MILL#3	24.0	1276.0	MW	dispatch								
9292	1213.4	6034.1	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:SALEM												
			Remove unit 1 from bus 36 SALEM-G1	22.0	1107.4	MW	dispatch								
9293	1213.5	6034.2	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7	
			C:GEN:IND PT 3-New												
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	1			0.00000	0.02075	506.2	531.3	
			Open 147798 IP#3 GEN	22.0	147832	IP3 345	345	2			-0.00025	-0.04128	-1009.3	-1059.4	
9294	1213.6	6034.2	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:PEACHBTM												
			Remove unit 1 from bus 34 PCHBTM 2	22.0	1051.0	MW	dispatch								
9295	1213.6	6034.2	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:IND PT 3												
			Remove unit 1 from bus 147798 IP#3 GEN	22.0	1040.4	MW	dispatch								
9296	1213.6	6034.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.8	300.0	0.12373	0.12372	149.6	299.7	
			C:GEN:IND PT 2-New												
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1			0.00000	-0.02033	-493.4	-518.0	
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2			-0.00025	-0.04066	-986.7	-1036.1	
9297	1213.6	6034.3*L:	120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.9	300.0	0.12372	0.12372	149.6	299.7	
			C:GEN:IND PT 2												
			Remove unit 2 from bus 126651 IND PT 2	22.0	1021.8	MW	dispatch								
9682	1215.7	6036.3	L: 120701 STARS-00701	13.8	125001	ROCK TAV	345	01	149.6	300.0	0.12372				
			Base Case												
11143	1241.6	6062.3	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-272.1	-317.0	-0.03620	-0.01772	-157.9	-179.9	
			C:SIN:440												
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			-0.10852	0.17024	1052.3	1263.7	
11144	1241.6	6062.3	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-272.1	-317.0	-0.03620	-0.01772	-157.9	-179.9	
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1							

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			Open 126286	GOWANUSN	345	126590	GOWANUS	41SR	345	BY				-0.01431	-0.08327	239.7	132.5
			Open 126286	GOWANUSN	345	126427	GOWNUS1T		138	1				0.12821	0.00000	231.0	231.0
			Open 126286	GOWANUSN	345	126620	GATE 1		138	1				-0.00953	-0.00000	49.7	49.7
			Open 126286	GOWANUSN	345	126621	GATE 2		138	1				-0.00953	-0.00000	49.7	49.7
			Open 121003	STARS-01003	13.8	126286	GOWANUSN		345	03	NA						
			Open 126283	GOTHLS N	345	126286	GOWANUSN		345	1				-0.00238	0.01531	-87.4	-67.7
11151	1332.3	6153.0	L: 126295	RAINEY	345	126561	8E DUM		138	8		43.8	342.0	0.22381	0.22266	17.7	314.4
			C:BUS:GOWANUS_S_345														1724
			Open 126287	GOWANUSS	345	126591	GOWANUS	42SR	345	BY				-0.00488	-0.08266	239.7	129.6
			Open 126287	GOWANUSS	345	126429	GOWNUS2T		138	1				0.14151	0.00000	228.7	228.7
			Open 126287	GOWANUSS	345	126622	GATE 3		138	1				0.00000	0.00000	49.7	49.7
			Open 126287	GOWANUSS	345	126623	GATE 4		138	1				0.00000	0.00000	44.5	44.5
			Open 126285	GOTHLS S	345	126287	GOWANUSS		345	1				-0.00980	-0.07619	522.9	421.4
			Open 126286	GOWANUSN	345	126287	GOWANUSS		345	1				0.00738	0.00000	0.5	0.5
11152	1333.7	6154.4	L: 126295	RAINEY	345	126561	8E DUM		138	8		43.4	342.0	0.22391	0.22266	17.7	314.7
			C:BUS:GOWANUS_N_345														1723
			Open 126286	GOWANUSN	345	126287	GOWANUSS		345	1				-0.00976	-0.00647	40.3	31.7
			Open 126286	GOWANUSN	345	126590	GOWANUS	41SR	345	BY				-0.01465	-0.08327	239.7	128.7
			Open 126286	GOWANUSN	345	126427	GOWNUS1T		138	1				0.13119	0.00000	231.0	231.0
			Open 126286	GOWANUSN	345	126620	GATE 1		138	1				-0.00976	-0.00000	49.7	49.7
			Open 126286	GOWANUSN	345	126621	GATE 2		138	1				-0.00976	-0.00000	49.7	49.7
			Open 121003	STARS-01003	13.8	126286	GOWANUSN		345	03	NA						
			Open 126283	GOTHLS N	345	126286	GOWANUSN		345	1				-0.00239	0.01531	-87.4	-67.0
11153	1335.9	6156.6	L: 126295	RAINEY	345	126562	8W DUM		138	8		89.5	372.0	0.21150	0.21150	73.0	355.5
			C:126298	SPRBROOK	345	126301	TREMONT		345	1	1456						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1				0.03349	0.00000	491.2	491.2
11154	1336.4	6157.0	L: 126295	RAINEY	345	126562	8W DUM		138	8		89.4	372.0	0.21150	0.21150	73.0	355.6
			C:BUS:TREMONT_345														1731
			Open 126466	SECT 11	138	126470	38X01 T		138	1				0.03349	-0.00002	122.2	122.2
			Open 126466	SECT 11	138	126471	38X02 T		138	1				0.03349	0.00002	122.2	122.3
			Open 126462	PARK TR1	138	126466	SECT 11		138	1	NA						
			Open 126467	SECT 12	138	126472	38X03 T		138	1				0.03349	-0.00002	124.4	124.4
			Open 126467	SECT 12	138	126473	38X04 T		138	1				0.03349	0.00002	120.1	120.1
			Open 126463	PARK TR2	138	126467	SECT 12		138	1	NA						
			Open 126301	TREMONT	345	126462	PARK TR1		138	1	NA						
			Open 126301	TREMONT	345	126463	PARK TR2		138	1	NA						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1				-0.00401	0.00000	2.3	2.3
11155	1348.7	6169.4	L: Interface	16 I-TO-J								3600.3	4949.0	1.00000			
			Base Case														
11156	1353.9	6174.5	L: 126295	RAINEY	345	126562	8W DUM		138	8		85.7	372.0	0.21150	0.21150	73.0	359.3
			C:SPRN-ACDMY														1879
			Open 126298	SPRBROOK	345	126847	ACADEMY		345	1				0.03160	0.00000	401.5	401.5
			Open 126780	SCK-PARW	138	126847	ACADEMY		345	1				0.00000	0.00000	-200.4	-200.4
			Open 126781	SCK-PARE	138	126847	ACADEMY		345	1				-0.03564	0.00000	0.6	0.6
11157	1380.4	6201.0	L: 126295	RAINEY	345	126561	8E DUM		138	8		34.6	342.0	0.22266	0.22266	17.7	325.1
			C:126298	SPRBROOK	345	126301	TREMONT		345	1	1456						
			Open 126298	SPRBROOK	345	126301	TREMONT		345	1				0.03349	0.00000	491.2	491.2

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			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462							
			Open 126374 DUN SO1R		138 126385 E179 ST	138	1				0.02750	-0.00000	234.1	234.1	
11160	1385.2	6205.9	L: 126295 RAINEY	345	126562 8W DUM	138	8		78.8	372.0	0.21164		0.21150	73.0	366.0
			C:SER:W90&W74					1682							
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00093	-0.16165	-977.7	-1201.7	
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01523	-0.00008	322.2	322.1	
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00060	-0.00158	42.8	40.7	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00319	0.00000	2.9	2.9	
11161	1385.4	6206.0	L: 126295 RAINEY	345	126562 8W DUM	138	8		78.6	372.0	0.21180		0.21150	73.0	366.0
			C:SER:W89&W73					1683							
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00095	-0.32474	-1059.4	-1509.3	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01338	-0.00008	341.7	341.6	
11162	1388.3	6209.0	*L: 126295 RAINEY	345	126562 8W DUM	138	8		77.6	372.0	0.21205		0.21150	73.0	366.6
			C:SIN:120					1767							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00334	0.07384	778.5	881.0	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00334	0.07384	778.5	881.0	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00141	-0.04128	39.3	-18.0	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA					
			Remove unit 1 from bus	147798	IP#3 GEN	22.0	1040.4	MW	dispatch						
11178	1397.9	6218.5	L: 126295 RAINEY	345	126561 8E DUM	138	8		30.7	342.0	0.22266		0.22266	17.7	329.0
			C:SPRN-ACDMY					1879							
			Open 126298 SPRBROOK	345	126847 ACADEMY	345	1				0.03247	0.00000	401.5	401.5	
			Open 126780 SCK-PARW	138	126847 ACADEMY	345	1				-0.00000	0.00000	-200.4	-200.4	
			Open 126781 SCK-PARE	138	126847 ACADEMY	345	1				-0.03663	0.00000	0.6	0.6	
12996	1426.6	6247.3	L: 126295 RAINEY	345	126561 8E DUM	138	8		24.3	342.0	0.22266		0.22266	17.7	335.4
			C:126374 DUN SO1R	138	126385 E179 ST	138	1	1462							
			Open 126374 DUN SO1R		138 126385 E179 ST	138	1				0.02826	-0.00000	234.1	234.1	
12997	1428.4	6249.1	L: 126295 RAINEY	345	126561 8E DUM	138	8		23.7	342.0	0.22282		0.22266	17.7	335.8
			C:SER:W90&W74					1682							
			Open 126266 DUNWODIE	345	126293 PL VILLW	345	1				-0.00096	-0.16165	-977.7	-1208.6	
			Open 126342 W74 TAP	345	126368 DUN NO	138	1				0.01565	-0.00008	322.2	322.1	
			Open 126293 PL VILLW	345	126733 PLTVILLE	13.8	1				0.00062	-0.00158	42.8	40.6	
			Open 126293 PL VILLW	345	126305 WOOD A	345	1				-0.00328	0.00000	2.9	2.9	
12998	1428.5	6249.2	L: 126295 RAINEY	345	126561 8E DUM	138	8		23.5	342.0	0.22298		0.22266	17.7	335.8
			C:SER:W89&W73					1683							
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1				-0.00098	-0.32474	-1059.4	-1523.3	
			Open 126343 W73 TAP	345	126372 DUN SO	138	1				0.01375	-0.00008	341.7	341.6	
13001	1431.4	6252.0	*L: 126295 RAINEY	345	126561 8E DUM	138	8		22.5	342.0	0.22323		0.22266	17.7	336.4
			C:SIN:120					1767							
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	1				0.00344	0.07384	778.5	884.2	
			Open 126263 BUCHANAN S	345	126291 MILLWOOD	345	2				0.00344	0.07384	778.5	884.2	
			Open 126263 BUCHANAN S	345	126290 LADENTWN	345	1				-0.00145	-0.04128	39.3	-19.7	
			Open 126263 BUCHANAN S	345	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	1			NA					
			Open 147798 IP#3 GEN	22.0	147832 IP3 345	345	2			NA					

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			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464										
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4				0.22267	0.25239	558.6	972.6				
14859	1640.5	6461.2	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	160	686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	160										
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR				0.22267	0.25239	558.6	972.6				
14860	1640.5	6461.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126601 REAC72	345	126641 MOTT HAVEN	345	4	1464										
			Open 126601 REAC72		345 126641 MOTT HAVEN	345	4				0.22267	0.25239	558.6	972.6				
14861	1640.5	6461.2	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		686.8	1196.0	0.31039		0.25419	562.4	979.4			
			C:126266 DUNWODIE	345	126601 REAC72	345	SR	160										
			Open 126266 DUNWODIE		345 126601 REAC72	345	SR				0.22267	0.25239	558.6	972.6				
14862	1661.6	6482.2	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR				0.22145	0.25419	562.4	984.8				
14863	1661.6	6482.2	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
			Open 126266 DUNWODIE		345 126600 REAC71	345	SR				0.22145	0.25419	562.4	984.8				
14864	1661.6	6482.2	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4		683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3				0.22145	0.25419	562.4	984.8				
14865	1661.6	6482.2	L: 126266 DUNWODIE	345	126601 REAC72	345	SR		683.1	1196.0	0.30868		0.25239	558.6	977.9			
			C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
			Open 126600 REAC71		345 126641 MOTT HAVEN	345	3				0.22145	0.25419	562.4	984.8				
14867	1727.2	6547.9	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1		297.0	350.0	0.03070		0.01617	156.6	184.5			
			C:125015 AC CBLTP	115	125020 DANSKAMA	115	1	77										
			Open 125015 AC CBLTP		115 125020 DANSKAMA	115	1				-0.93147	-0.01560	-150.7	-177.7				
14868	1736.0	6556.6	L: 125020 DANSKAMA	115	125021 DC CBLTP	115	1		296.7	350.0	0.03070		0.01617	156.6	184.7			
			C:125015 AC CBLTP	115	125041 N.CHELSE	115	1	78										
			Open 125015 AC CBLTP		115 125041 N.CHELSE	115	1				0.93147	0.01560	150.4	177.5				
14870	1763.7	6584.4	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										
			Open 126298 SPRBROOK		345 126518 REACM52	345	SR				0.18540	0.24671	564.1	999.2				
14871	1763.7	6584.4	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
			Open 126298 SPRBROOK		345 126517 REACM51	345	SR				0.18540	0.24671	564.1	999.2				
14872	1763.7	6584.4	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
			Open 126298 SPRBROOK		345 126517 REACM51	345	SR				0.18540	0.24671	564.1	999.2				
14873	1763.7	6584.4	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3		667.0	1196.0	0.29993		0.25419	562.4	1010.7			
			C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										
			Open 126298 SPRBROOK		345 126518 REACM52	345	SR				0.18540	0.24671	564.1	999.2				
14874	1765.2	6585.8	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		666.6	1196.0	0.29993		0.25419	562.4	1011.1			
			C:126304 W 49 ST	345	126518 REACM52	345	2	1459										
			Open 126304 W 49 ST		345 126518 REACM52	345	2				-0.18540	-0.24671	-561.8	-997.3				
14875	1765.2	6585.8	L: 126266 DUNWODIE	345	126600 REAC71	345	SR		666.6	1196.0	0.29993		0.25419	562.4	1011.1			
			C:126304 W 49 ST	345	126517 REACM51	345	1	1458										
			Open 126304 W 49 ST		345 126517 REACM51	345	1				0.18540	0.24671	564.1	999.2				

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14880	1791.7	6612.4	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.4	1196.0	0.29781	0.25239	558.6	1010.8
			C:126298 SPRBROOK	345	126518 REACM52	345	SR 197						
			Open 126298 SPRBROOK	345	126518 REACM52	345	SR			0.18409	0.24671	564.1	1006.1
14881	1791.7	6612.4	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.4	1196.0	0.29781	0.25239	558.6	1010.8
			C:126298 SPRBROOK	345	126517 REACM51	345	SR 196						
			Open 126298 SPRBROOK	345	126517 REACM51	345	SR			0.18409	0.24671	564.1	1006.1
14882	1793.2	6613.8	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126517 REACM51	345	1 1458						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18409	-0.24671	-561.8	-1004.2
14883	1793.2	6613.8	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126518 REACM52	345	2 1459						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18409	-0.24671	-561.8	-1004.2
14884	1793.2	6613.8	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126518 REACM52	345	2 1459						
			Open 126304 W 49 ST	345	126518 REACM52	345	2			-0.18409	-0.24671	-561.8	-1004.2
14885	1793.2	6613.8	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	662.0	1196.0	0.29781	0.25239	558.6	1011.1
			C:126304 W 49 ST	345	126517 REACM51	345	1 1458						
			Open 126304 W 49 ST	345	126517 REACM51	345	1			-0.18409	-0.24671	-561.8	-1004.2
14886	1929.9	6750.6	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	3	-277.3	-783.0	-0.26202			
			Base Case										
14887	1938.1	6758.8	L: 125002 ROSETON	345	126281 FISHKILL	345	1	1233.8	1935.0	0.36178			
			Base Case										
14888	2140.0	6960.7	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4	-259.7	-783.0	-0.24455			
			Base Case										
14889	2235.1	7055.8	L: 126266 DUNWODIE	345	126600 REAC71	345	SR	627.9	1196.0	0.25419	0.25419	562.4	1130.6
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14890	2235.1	7055.8	L: 126600 REAC71	345	126641 MOTT HAVEN	345	3	627.9	1196.0	0.25419	0.25419	562.4	1130.6
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14891	2251.5	7072.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04507	-0.02117	-457.8	-505.4
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1 69						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.17024	1052.3	1435.6
14892	2251.5	7072.2	L: 146771 SHOEM138	138	146772 SHOEMTAP	138	1	-605.5	-707.0	-0.04507	-0.02117	-457.8	-505.4
			C:SIN:440				1783						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1			-0.14040	0.17024	1052.3	1435.6
14893	2268.2	7088.9	L: 126601 REAC72	345	126641 MOTT HAVEN	345	4	623.5	1196.0	0.25239	0.25239	558.6	1131.0
			C:GEN:SCS AST				1652						
			Remove unit 1 from bus 126667 SCS18-G1	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126668 SCS18-G2	18.0	200.0 MW	dispatch							
			Remove unit 1 from bus 126669 SCS18-G3	18.0	220.0 MW	dispatch							
14894	2268.2	7088.9	L: 126266 DUNWODIE	345	126601 REAC72	345	SR	623.5	1196.0	0.25239	0.25239	558.6	1131.0
			C:GEN:SCS AST				1652						





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				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			0.20413	0.24671	564.1	1190.9				
21922	2542.3	7362.9	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		678.8	1434.0	0.29707		0.24671	564.1	1191.3			
				C:126304 W 49 ST	345	126517 REACM51	345	1	1458										
				Open 126304 W 49 ST		345 126517 REACM51		345	1			-0.20413	-0.24671	-561.8	-1189.0				
21923	2542.3	7362.9	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		678.8	1434.0	0.29707		0.24671	564.1	1191.3			
				C:126304 W 49 ST	345	126518 REACM52	345	2	1459										
				Open 126304 W 49 ST		345 126518 REACM52		345	2			-0.20413	-0.24671	-561.8	-1189.0				
21974	2548.5	7369.1	L:	126304 W 49 ST	345	126518 REACM52	345	2		-676.9	-1434.0	-0.29707		-0.24671	-561.8	-1190.5			
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			-0.20413	0.24671	564.1	1192.8				
21975	2548.5	7369.1	L:	126304 W 49 ST	345	126517 REACM51	345	1		-676.9	-1434.0	-0.29707		-0.24671	-561.8	-1190.5			
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										
				Open 126298 SPRBROOK		345 126518 REACM52		345	SR			-0.20413	0.24671	564.1	1192.8				
21984	2550.1	7370.7	L:	126304 W 49 ST	345	126517 REACM51	345	1		-676.4	-1434.0	-0.29707		-0.24671	-561.8	-1190.9			
				C:126304 W 49 ST	345	126518 REACM52	345	2	1459										
				Open 126304 W 49 ST		345 126518 REACM52		345	2			0.20413	-0.24671	-561.8	-1190.9				
21985	2550.1	7370.7	L:	126304 W 49 ST	345	126518 REACM52	345	2		-676.4	-1434.0	-0.29707		-0.24671	-561.8	-1190.9			
				C:126304 W 49 ST	345	126517 REACM51	345	1	1458										
				Open 126304 W 49 ST		345 126517 REACM51		345	1			0.20413	-0.24671	-561.8	-1190.9				
22024	2559.6	7380.2	L:	125001 ROCK TAV	345	126297 RAMAPO	345	1		1506.4	2283.0	0.30339		0.17024	1052.3	1488.0			
				C:SIN:430					1782										
				Open 125002 ROSETON		345 126281 FISHKILL		345	1			0.36806	0.36178	1233.8	2159.8				
22025	2559.6	7380.2	L:	125001 ROCK TAV	345	126297 RAMAPO	345	1		1506.4	2283.0	0.30339		0.17024	1052.3	1488.0			
				C:125002 ROSETON	345	126281 FISHKILL	345	1	72										
				Open 125002 ROSETON		345 126281 FISHKILL		345	1			0.36806	0.36178	1233.8	2159.8				
22154	2611.0	7431.6	L:	126385 E179 ST	138	126445 HG 4	138	1		66.9	179.0	0.04294							
				Base Case															
22157	2613.1	7433.8	L:	126385 E179 ST	138	126442 HG 1	138	1		66.8	179.0	0.04294							
				Base Case															
22164	2620.2	7440.8	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
				Open 126266 DUNWODIE		345 126600 REAC71		345	SR			0.18193	0.25419	562.4	1228.4				
22165	2620.2	7440.8	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126266 DUNWODIE	345	126600 REAC71	345	SR	159										
				Open 126266 DUNWODIE		345 126600 REAC71		345	SR			0.18193	0.25419	562.4	1228.4				
22166	2620.2	7440.8	L:	126298 SPRBROOK	345	126518 REACM52	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
				Open 126600 REAC71		345 126641 MOTT HAVEN		345	3			0.18193	0.25419	562.4	1228.4				
22167	2620.2	7440.8	L:	126298 SPRBROOK	345	126517 REACM51	345	SR		666.4	1434.0	0.29296		0.24671	564.1	1210.5			
				C:126600 REAC71	345	126641 MOTT HAVEN	345	3	1463										
				Open 126600 REAC71		345 126641 MOTT HAVEN		345	3			0.18193	0.25419	562.4	1228.4				
22168	2622.7	7443.4	L:	126295 RAINY	345	126641 MOTT HAVEN	345	3		-385.1	-1196.0	-0.30917		-0.26202	-277.3	-964.5			
				C:126298 SPRBROOK	345	126517 REACM51	345	SR	196										
				Open 126298 SPRBROOK		345 126517 REACM51		345	SR			-0.19112	0.24671	564.1	1211.1				
22169	2622.7	7443.4	L:	126295 RAINY	345	126641 MOTT HAVEN	345	3		-385.1	-1196.0	-0.30917		-0.26202	-277.3	-964.5			
				C:126298 SPRBROOK	345	126518 REACM52	345	SR	197										

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			Open 126266 DUNWODIE	345	126601	REAC72	345	SR				0.18165	0.25239	558.6	1221.5
22178	2626.7	7447.3	L: 126298 SPRBROOK	345	126518	REACM52	345	SR	665.5	1434.0	0.29256		0.24671	564.1	1212.1
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				0.18165	0.25239	558.6	1221.5
22179	2626.7	7447.3	L: 126298 SPRBROOK	345	126517	REACM51	345	SR	665.5	1434.0	0.29256		0.24671	564.1	1212.1
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				0.18165	0.25239	558.6	1221.5
22182	2628.1	7448.7	L: 126304 W 49 ST	345	126517	REACM51	345	1	-664.1	-1434.0	-0.29296		-0.24671	-561.8	-1210.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	159						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR				-0.18193	0.25419	562.4	1230.4
22183	2628.1	7448.7	L: 126304 W 49 ST	345	126518	REACM52	345	2	-664.1	-1434.0	-0.29296		-0.24671	-561.8	-1210.1
			C:126266 DUNWODIE	345	126600	REAC71	345	SR	159						
			Open 126266 DUNWODIE	345	126600	REAC71	345	SR				-0.18193	0.25419	562.4	1230.4
22184	2628.1	7448.7	L: 126304 W 49 ST	345	126518	REACM52	345	2	-664.1	-1434.0	-0.29296		-0.24671	-561.8	-1210.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1463						
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3				-0.18193	0.25419	562.4	1230.4
22185	2628.1	7448.7	L: 126304 W 49 ST	345	126517	REACM51	345	1	-664.1	-1434.0	-0.29296		-0.24671	-561.8	-1210.1
			C:126600 REAC71	345	126641	MOTT HAVEN	345	3	1463						
			Open 126600 REAC71	345	126641	MOTT HAVEN	345	3				-0.18193	0.25419	562.4	1230.4
22190	2634.6	7455.3	L: 126304 W 49 ST	345	126518	REACM52	345	2	-663.2	-1434.0	-0.29256		-0.24671	-561.8	-1211.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				-0.18165	0.25239	558.6	1223.5
22191	2634.6	7455.3	L: 126304 W 49 ST	345	126517	REACM51	345	1	-663.2	-1434.0	-0.29256		-0.24671	-561.8	-1211.8
			C:126601 REAC72	345	126641	MOTT HAVEN	345	4	1464						
			Open 126601 REAC72	345	126641	MOTT HAVEN	345	4				-0.18165	0.25239	558.6	1223.5
22192	2634.6	7455.3	L: 126304 W 49 ST	345	126518	REACM52	345	2	-663.2	-1434.0	-0.29256		-0.24671	-561.8	-1211.8
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	160						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR				-0.18165	0.25239	558.6	1223.5
22193	2634.6	7455.3	L: 126304 W 49 ST	345	126517	REACM51	345	1	-663.2	-1434.0	-0.29256		-0.24671	-561.8	-1211.8
			C:126266 DUNWODIE	345	126601	REAC72	345	SR	160						
			Open 126266 DUNWODIE	345	126601	REAC72	345	SR				-0.18165	0.25239	558.6	1223.5
22214	2644.0	7464.7	L: 126353 ASTORIA WEST	138	126446	HG 5	138	1	66.0	197.0	0.04953				
			Base Case												
22285	2737.3	7557.9	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1370.2	-2384.0	-0.37037		-0.32474	-1059.4	-1948.3
			C:SER:F39&Y87					1681							
			Open 126281 FISHKILL	345	126305	WOOD A	345	1				-0.14272	0.16039	1159.0	1598.0
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.14206	-0.16007	-1023.5	-1461.6
			Open 126305 WOOD A	345	130758	WOODA345	345	1	NA						
			Open 130758 WOODA345	345	130865	WOODS115	115	1				-0.03358	0.00000	-0.0	-0.0
22286	2737.3	7557.9	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1370.2	-2384.0	-0.37037		-0.32474	-1059.4	-1948.3
			C:BUS:WOODA_345					1717							
			Open 126305 WOOD A	345	130758	WOODA345	345	1				0.14206	0.00033	135.5	136.4
			Open 126281 FISHKILL	345	126305	WOOD A	345	1				-0.28478	0.16039	1159.0	1598.0
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.10849	0.00000	-0.0	-0.0
22295	2759.4	7580.1	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1369.5	-2384.0	-0.36765		-0.32474	-1059.4	-1955.5
			C:126281 FISHKILL	345	126305	WOOD A	345	1	175						
			Open 126281 FISHKILL	345	126305	WOOD A	345	1				0.28756	0.16039	1159.0	1601.6

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			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch				
22309	2823.2	7643.9	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-419.6	-1120.0	-0.24808	-0.24808 -414.4 -1114.8
			C:SIN:130											1768
			Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	1			0.00000	0.07384	778.5 987.0
			Open 126263 BUCHANAN S	345	126291	MILLWOOD		345	2			0.00000	0.07384	778.5 987.0
			Open 126263 BUCHANAN S	345	126290	LADENTWN		345	1			0.00000	-0.04128	39.3 -77.2
			Open 126263 BUCHANAN S	345	147832	IP3	345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1	NA				
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2	NA				
			Remove unit 1 from bus	147798	IP#3	GEN	22.0	1040.4	MW	dispatch				
22310	2831.7	7652.3	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1			-1340.1	-2384.0	-0.36864	-0.32474 -1059.4 -1979.0
			C:126293 PL VILLW	345	126305	WOOD A	345	1	182					
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.27429	-0.16007	-1023.5 -1476.7
22311	2840.3	7661.0	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.4	-1120.0	-0.24808	-0.24808 -414.4 -1119.0
			C:GEN:SEABROOK											1672
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch				
22312	2840.3	7661.0	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.4	-1120.0	-0.24808	-0.24808 -414.4 -1119.0
			C:GEN:SEAB&OMS											1674
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0 -0.0
			Remove unit 1 from bus	102869	SBRK	G1	25.0	1318.0	MW	dispatch				
22313	2840.4	7661.1	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.3	-1120.0	-0.24808	-0.24808 -414.4 -1119.1
			C:GEN:MILLST 3											1671
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
22314	2840.4	7661.1	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.3	-1120.0	-0.24808	-0.24808 -414.4 -1119.1
			C:GEN:MLS3&OMS											1673
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00000	0.00000	-0.0 -0.0
			Remove unit 3 from bus	103563	MILL#3	24.0	1276.0	MW	dispatch					
22315	2840.9	7661.5	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.2	-1120.0	-0.24811	-0.24808 -414.4 -1119.2
			C:GEN:IND PT 3-New											1874
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	1			0.00000	0.02075	506.2 565.1
			Open 147798 IP#3 GEN	22.0	147832	IP3	345	345	2			0.00072	-0.04128	-1009.3 -1126.6
22316	2840.9	7661.6	L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.2	-1120.0	-0.24808	-0.24808 -414.4 -1119.2
			C:GEN:SALEM											1666
			Remove unit 1 from bus	36	SALEM-G1	22.0	1107.4	MW	dispatch					
22317	2840.9	7661.6	*L: 125002 ROSETON	345	125190	ROSE	GN1	24.0	1		-415.1	-1120.0	-0.24811	-0.24808 -414.4 -1119.2
			C:GEN:IND PT 2-New											1873
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	1				0.00000	-0.02033	-493.4 -551.1
			Open 126288 IP2 345	345	126651	IND PT 2	22.0	2				0.00072	-0.04066	-986.7 -1102.3
24162	2873.8	7694.5	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1			-1316.9	-2384.0	-0.37131	-0.32474 -1059.4 -1992.6
			C:BUS:PLVILLW_345											1719
			Open 126293 PL VILLW	345	126305	WOOD A	345	1				0.28350	-0.16007	-1023.5 -1483.5
			Open 126293 PL VILLW	345	126733	PLTVILLE	13.8	1				0.75372	-0.00158	42.8 38.3
			Open 126266 DUNWODIE	345	126293	PL VILLW	345	1				0.11593	0.00000	2.9 2.9
24162	2882.0	7702.7	L: 126266 DUNWODIE	345	126292	PL VILLE	345	1			-1316.9	-2384.0	-0.37131	-0.32474 -1059.4 -1992.6

## DunwoodieSouth

			C:126304 W 49 ST	345	126518 REACM52	345	2	1459						
			Open 126304 W 49 ST		345 126518 REACM52		345	2				0.17838	-0.24671	-561.8 -1276.6
24167	2897.6	7718.3	L: 126295 RAINEY	345	126641 MOTT HAVEN	345	4		-359.9	-1196.0	-0.28856		-0.24455	-259.7 -968.3
			C:126304 W 49 ST	345	126517 REACM51	345	1	1458						
			Open 126304 W 49 ST		345 126517 REACM51		345	1				0.17838	-0.24671	-561.8 -1276.6
24172	2944.2	7764.9	L: 125002 ROSETON	345	126281 FISHKILL	345	1		1801.5	3137.0	0.45361		0.36178	1233.8 2299.0
			C:SIN:440					1783						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345	1				0.53943	0.17024	1052.3 1553.5
24173	2944.2	7764.9	L: 125002 ROSETON	345	126281 FISHKILL	345	1		1801.5	3137.0	0.45361		0.36178	1233.8 2299.0
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69						
			Open 125001 ROCK TAV		345 126297 RAMAPO		345	1				0.53943	0.17024	1052.3 1553.5
24178	2977.4	7798.1	L: 126353 ASTORIA WEST	138	126587 HG6 TAP2	138	1		67.6	197.0	0.04347			
			Base Case											

I-to-K

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 10:54  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-LIPA-Import.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 32580  
 First violation - -185.3 MW.

Study transfer. From I\_EXPORT To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 32580 violations

Interface-1 Interface 55 I-to-K Init.Flow= 1279.95 TDF= 1.0000

N	FCITC	IntFce1	L: Limiting constraint	PreShift	MW	TDF	LODF	PTDF	=Base Case Flow=				
			C: Contingency description	__Ncon	Flow	Rating			Init Final				
1	-185.3	1094.6	L: Interface 78 LIPA Export Base Case	-2901.3	-2716.0	-1.00000							
2	-124.2	1155.8	L: Interface 19 LIPA IMPORT Base Case	2900.2	2776.0	1.00000							
3	12.5	1292.5	L: 126266 DUNWODIE Base Case	345 1	640.5	653.0	1.00000						
4	81.0	1361.0	L: Interface 56 K-to-I Base Case	-1280.0	-1361.0	-1.00000							
5	81.0	1361.0	L: Interface 55 I-to-K Base Case	1280.0	1361.0	1.00000							
6	142.2	1422.2	L: Interface 15 I-to-K Base Case	1278.8	1421.0	1.00000							
7	205.2	1485.2	L: 129283 GLNWD SO Base Case	138 1	108.2	118.0	0.04758						
8	214.7	1494.6	L: 120801 STARS-00901 C:130782 CATON115 Open 130782 CATON115	13.8 115 1	126292 130813 130813	PL VILLE HICK 115	345 115 1	85.3	300.0	1.00000	1.00000	85.3	300.0
9	214.7	1494.6	L: 120801 STARS-00901 C:146763 MONSEY Open 146763 MONSEY	13.8 138 1	126292 146811 146811	PL VILLE TALLMAN	345 138 1	85.3	300.0	1.00000	1.00000	85.3	300.0
10	214.7	1494.6	L: 120801 STARS-00901 C:126378 EASTVIEW Open 126378 EASTVIEW	13.8 138 1	126292 126382 126382	PL VILLE ELMSFD2E	345 138 1	85.3	300.0	1.00000	1.00000	85.3	300.0
11	214.7	1494.6	L: 120801 STARS-00901 C:126378 EASTVIEW Open 126378 EASTVIEW	13.8 138 1	126292 126382 126382	PL VILLE ELMSFD2E	345 138 1	85.3	300.0	1.00000	1.00000	85.3	300.0

I-to-K

			Open 125013 MERRITT	115	125058 WICCOPEE	115	1			0.00000	-0.00149	31.1	30.8
16	214.7	1494.6	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000	1.00000	85.3	300.0
			C:136764 COLTON	115	136771 FLAT RCK	115	1						973
			Open 136764 COLTON	115	136771 FLAT RCK	115	1			0.00000	0.00000	40.5	40.5
17	214.7	1494.6	*L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000	1.00000	85.3	300.0
			C:137517 N. TROY	115	137543 SYCA-14	115	1						1153
			Open 137517 N. TROY	115	137543 SYCA-14	115	1			0.00000	-0.00002	-102.9	-102.9
1388	214.7	1494.6	L: 120801 STARS-00901	13.8	126292 PL VILLE	345	01	85.3	300.0	1.00000			
			Base Case										
1864	324.2	1604.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	319.6	482.0	0.50089			
			Base Case										
1865	327.6	1607.5	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	318.5	482.0	0.49911			
			Base Case										
1866	409.3	1689.2	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	469.1	770.0	0.73515	0.50089	319.6	524.6
			C:128835 SHORE RD	345	129293 SHORE RD	138	2						1488
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46935	0.49911	318.5	522.8
1867	411.3	1691.2	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	468.2	770.0	0.73376	0.49911	318.5	523.8
			C:128835 SHORE RD	345	129293 SHORE RD	138	1						1487
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46847	0.50089	319.6	525.6
1868	413.1	1693.1	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	92.8	118.0	0.06095			
			Base Case										
1869	430.9	1710.8	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	358.8	406.0	0.10944	0.00000	288.7	288.7
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						1455
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.10944	1.00000	640.5	1071.4
1870	430.9	1710.8	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	358.8	406.0	0.10944	0.00000	288.7	288.7
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						1455
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.10944	1.00000	640.5	1071.4
1871	433.5	1713.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	1	358.6	406.0	0.10944	0.00000	288.7	288.7
			C:BUS:SHORE_RD_345										1724
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.10944	0.50089	319.6	536.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.10944	0.49911	318.5	534.9
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01295	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01295	0.00000	-0.0	-0.0
1872	433.5	1713.5	L: 126452 HUDAVE E	138	126455 JAMAICA	138	2	358.6	406.0	0.10944	0.00000	288.7	288.7
			C:BUS:SHORE_RD_345										1724
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.10944	0.50089	319.6	536.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.10944	0.49911	318.5	534.9
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.01295	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.01295	0.00000	-0.0	-0.0
1873	476.1	1756.0	L: Interface 20 LI SUM					1454.9	1931.0	1.00000			
			Base Case										
1874	513.6	1793.6	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1	277.8	428.0	0.29244	0.00000	90.5	90.5
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1						1455
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.29244	1.00000	640.5	1154.1
1875	516.0	1796.0	L: 126455 JAMAICA	138	129249 L SUCSPH	138	1	277.1	428.0	0.29244	0.00000	90.5	90.5
			C:BUS:SHORE_RD_345										1724
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.29244	0.50089	319.6	536.8

I-to-K

1879	517.5	1797.4	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	195.0	379.0	0.35563	0.35563	44.9	229.0	
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.23507	0.00000	-638.3	-638.3
1880	518.5	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.6	-379.0	-0.35563	-0.35563	-45.0	-229.4	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.23507	0.00000	-636.5	-636.5
1881	518.5	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.6	-379.0	-0.35563	-0.35563	-45.0	-229.4	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				-0.23507	-0.00000	636.5	636.5
1882	518.5	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.6	-379.0	-0.35563	-0.35563	-45.0	-229.4	
			C:SPRN-BRK-345					1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23473	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00067	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22580	0.00000	4.5	4.5
1883	518.5	1798.4	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-194.6	-379.0	-0.35563	-0.35563	-45.0	-229.4	
			C:BUS:EGC_345					1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				-0.23473	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00067	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				0.22580	0.00000	4.5	4.5
1884	518.6	1798.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				-0.23507	0.00000	-636.5	-636.5
1885	518.6	1798.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1				0.23507	-0.00000	636.5	636.5
1886	518.7	1798.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4	
			C:BUS:EGC_345					1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.23473	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				-0.00067	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.22580	0.00000	4.5	4.5
1887	518.7	1798.6	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4	
			C:SPRN-BRK-345					1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.23473	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						

I-to-K

			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		0.53278	-0.00000	640.9	640.9		
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-0.00047	0.00000	-318.0	-318.0		
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		-0.49848	0.00000	4.5	4.5		
1891	532.2	1812.1	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:SPRN-BRK-345						1881						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		0.53278	-0.00000	640.9	640.9		
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1		-0.00047	0.00000	-318.0	-318.0		
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1		-0.49848	0.00000	4.5	4.5		
1892	532.2	1812.2	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		-0.53302	0.00000	-636.5	-636.5		
1893	532.2	1812.2	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1		979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		0.53302	-0.00000	636.5	636.5		
1894	557.4	1837.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1		-140.8	-339.0	-0.35563	-0.35563	9.5	-188.7
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	198						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		-0.23507	-0.00000	639.5	639.5		
1895	558.2	1838.1	L: 129270 E.G.C.	138	129288	ROSLYN	138	1		-140.5	-339.0	-0.35563	-0.35563	9.5	-189.0
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		0.23507	0.00000	-638.3	-638.3		
1896	558.3	1838.2	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		490.4	770.0	0.50089	0.50089	319.6	599.3
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	198						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		0.26698	-0.00000	639.5	639.5		
1897	558.9	1838.9	L: 128835 SHORE RD	345	129293	SHORE RD	138	1		490.0	770.0	0.50089	0.50089	319.6	599.6
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		-0.26698	0.00000	-638.3	-638.3		
1898	559.3	1839.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1		-140.1	-339.0	-0.35563	-0.35563	9.5	-189.4
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		0.23507	0.00000	-636.5	-636.5		
1899	559.3	1839.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1		-140.1	-339.0	-0.35563	-0.35563	9.5	-189.4
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		-0.23507	-0.00000	636.5	636.5		
1900	559.3	1839.3	L: 129270 E.G.C.	138	129288	ROSLYN	138	1		-140.1	-339.0	-0.35563	-0.35563	9.5	-189.4
			C:BUS:EGC_345						1725						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY		-0.23473	-0.00000	640.9	640.9		
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1	NA						





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			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.07300	0.49911	318.5	600.7		
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00864	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.00864	0.00000	-0.0	-0.0		
1914	572.8	1852.8	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-180.1	-379.0	-0.34717	-0.34717	-33.5	-232.4
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198							
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1					-0.22933	-0.00000	639.5	639.5
1915	573.6	1853.6	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-179.9	-379.0	-0.34717	-0.34717	-33.5	-232.6
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465							
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1					0.22933	0.00000	-638.3	-638.3
1916	574.8	1854.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-179.5	-379.0	-0.34717	-0.34717	-33.5	-233.0
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1					0.22933	0.00000	-636.5	-636.5
1917	574.8	1854.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-179.5	-379.0	-0.34717	-0.34717	-33.5	-233.0
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1					-0.22933	-0.00000	636.5	636.5
1918	574.8	1854.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-179.5	-379.0	-0.34717	-0.34717	-33.5	-233.0
			C:SPRN-BRK-345					1881							
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY					-0.22900	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1					0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1					0.22029	0.00000	4.5	4.5
1919	574.8	1854.7	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1			-179.5	-379.0	-0.34717	-0.34717	-33.5	-233.0
			C:BUS:EGC_345					1725							
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY					-0.22900	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1					0.00065	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1					0.22029	0.00000	4.5	4.5
1920	579.0	1858.9	L: 126277 FARRAGUT	345	126451 FGT_X8	138	1			173.7	216.0	0.07298	-0.00000	127.0	127.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455							
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.07298	1.00000	640.5	1219.4
1921	580.2	1860.2	L: 126277 FARRAGUT	345	126436 FGT_X10	138	1			173.7	216.0	0.07291	-0.00000	127.0	127.0
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455							
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					0.07291	1.00000	640.5	1220.7
1922	581.6	1861.5	L: 126277 FARRAGUT	345	126451 FGT_X8	138	1			173.6	216.0	0.07298	-0.00000	127.0	127.0
			C:BUS:SHORE_RD_345					1724							
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1					0.07298	0.50089	319.6	610.9
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2					0.07298	0.49911	318.5	608.8
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1					-0.00864	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1					-0.00864	0.00000	-0.0	-0.0
1923	582.8	1862.8	L: 126277 FARRAGUT	345	126436 FGT_X10	138	1			173.5	216.0	0.07291	-0.00000	127.0	127.0
			C:BUS:SHORE_RD_345					1724							

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			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.29244	1.00000	640.5	1230.1
1927	592.0	1872.0	L: 129248 L SUCS	138	129249	L SUCSPH	138	1	-276.9	-450.0	-0.29244	0.00000	-90.3	-90.3	
			C:BUS:SHORE_RD_345					1724							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				-0.29244	0.50089	319.6	616.2
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				-0.29244	0.49911	318.5	614.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.00476	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				0.00476	0.00000	-0.0	-0.0
1928	613.3	1893.2	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-80.0	-379.0	-0.48763	-0.34717	-33.5	-246.4	
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1521						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				0.33718	-0.41657	-137.8	-393.3
1929	614.0	1894.0	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-38.5	-339.0	-0.48939	-0.35563	9.5	-208.8	
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1522						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1				0.33887	-0.39475	-141.7	-384.1
1930	658.2	1938.2	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	116.7	165.0	0.07331	0.04758	108.2	139.6	
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1521						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				-0.06176	-0.41657	-137.8	-412.0
1931	667.0	1946.9	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-57.2	-379.0	-0.48243	-0.35563	-45.0	-282.2	
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				0.36526	-0.34717	-33.5	-265.0
1932	667.1	1947.1	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	57.2	379.0	0.48243	0.35563	44.9	282.2	
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				-0.36526	-0.34717	-33.5	-265.1
1933	668.1	1948.0	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	843.9	1512.0	1.00000	1.00000	640.5	1308.6	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1489						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.30813	0.00000	-660.2	-660.2
1934	685.8	1965.8	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-135.1	-379.0	-0.35563	-0.35563	-45.0	-288.9	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1489						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				0.13649	0.00000	-660.2	-660.2
1935	686.0	1966.0	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	135.0	379.0	0.35563	0.35563	44.9	288.9	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1489						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.13649	0.00000	-660.2	-660.2
1936	693.6	1973.6	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-49.6	-379.0	-0.47483	-0.34717	-33.5	-274.3	
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1519						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1				0.35897	-0.35563	-45.0	-291.7
1937	693.7	1973.6	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-49.6	-379.0	-0.47483	-0.34717	-33.5	-274.3	
			C:129281 GLNWD GT	138	129288	ROSLYN	138	1	1520						
			Open 129281 GLNWD GT	138	129288	ROSLYN	138	1				-0.35897	0.35563	44.9	291.6
1938	695.7	1975.7	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	421.5	770.0	0.50089	0.50089	319.6	668.1	
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1489						
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1				-0.15434	0.00000	-660.2	-660.2
1939	697.1	1977.1	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-2.7	-339.0	-0.48243	-0.35563	9.5	-238.4	
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				0.36526	-0.34717	-33.5	-275.5
1940	700.5	1980.5	L: 126266 DUNWODIE	345	128835	SHORE RD	345	1	811.5	1512.0	1.00000	1.00000	640.5	1341.0	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1546						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1				0.38280	0.00000	446.7	446.7
1941	701.0	1981.1	L: 128835 SHORE RD	345	129293	SHORE RD	138	1	422.0	770.0	0.49911	0.49911	318.5	668.5	

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1946	728.1	2008.1	L: 128835 SHORE RD	345	129293 SHORE RD	138	1	405.3	770.0	0.50089	0.50089	319.6	684.3
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1						
1947	733.6	2013.6	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	403.9	770.0	0.49911	0.49911	318.5	684.6
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1						
1948	734.9	2014.8	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-30.1	-379.0	-0.47483	-0.34717	-33.5	-288.6
			C:129270 E.G.C.	138	129288 ROSLYN	138	1						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1						
1949	736.2	2016.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-20.0	339.0	0.48763	0.34717	-66.4	189.1
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1						
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1						
1951	742.6	2022.6	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1	-20.7	-379.0	-0.48243	-0.35563	-45.0	-309.1
			C:129265 CARLE PL	138	129270 E.G.C.	138	1						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						
1952	742.8	2022.7	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	20.7	379.0	0.48243	0.35563	44.9	309.1
			C:129265 CARLE PL	138	129270 E.G.C.	138	1						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1						
1955	745.5	2025.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	80.2	339.0	0.34717	0.34717	-66.4	192.4
			C:126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
1956	746.2	2026.2	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	79.9	339.0	0.34717	0.34717	-66.4	192.6
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
1957	747.4	2027.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	79.5	339.0	0.34717	0.34717	-66.4	193.0
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
1958	747.4	2027.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	79.5	339.0	0.34717	0.34717	-66.4	193.0
			C:128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
1959	747.4	2027.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	79.5	339.0	0.34717	0.34717	-66.4	193.0
			C:SPRN-BRK-345										
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1						
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						
1960	747.4	2027.4	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	79.5	339.0	0.34717	0.34717	-66.4	193.0
			C:BUS:EGC_345										
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1						
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1						

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1967	766.4	2046.3	L: 129270 E.G.C. Base Case	138	129288	ROSLYN	138	1	9.5	-263.0	-0.35563				
1968	772.8	2052.7	*L: 129270 E.G.C. C:129265 CARLE PL Open 129265 CARLE PL	138	129288	ROSLYN	138	1	33.8	-339.0	-0.48243	-0.35563	9.5	-265.3	
1970	781.5	2061.4	*L: 128835 SHORE RD C:128822 E.G.C.-1 Open 128822 E.G.C.-1	345	129293	SHORE RD	138	1	378.6	770.0	0.50089	0.50089	319.6	711.1	
1974	783.1	2063.1	L: 129283 GLNWD SO C:129282 GLNWD NO Open 129282 GLNWD NO	138	129293	SHORE RD	138	1	-196.7	-636.0	-0.56094	-0.39475	-141.7	-450.9	
1976	787.0	2066.9	*L: 128835 SHORE RD C:128822 E.G.C.-1 Open 128822 E.G.C.-1	345	129293	SHORE RD	138	2	377.2	770.0	0.49911	0.49911	318.5	711.3	
1988	795.4	2075.3	L: 129282 GLNWD NO C:126299 REACBUS Open 126299 REACBUS	138	129293	SHORE RD	138	1	-304.7	-636.0	-0.41657	-0.41657	-137.8	-469.2	
1989	796.1	2076.1	L: 129282 GLNWD NO C:128830 HMP HRBR Open 128830 HMP HRBR	138	129293	SHORE RD	138	1	-304.4	-636.0	-0.41657	-0.41657	-137.8	-469.5	
1990	796.4	2076.4	L: 129328 ELWOOD 1 Base Case	138	129671	ELWOOD	69.0	1	89.9	114.0	0.03024				
1991	797.2	2077.2	L: 129282 GLNWD NO C:128824 EGC DUM Open 128824 EGC DUM	138	129293	SHORE RD	138	1	-303.9	-636.0	-0.41657	-0.41657	-137.8	-469.9	
1992	797.2	2077.2	L: 129282 GLNWD NO C:128824 EGC DUM Open 128824 EGC DUM	138	129293	SHORE RD	138	1	-303.9	-636.0	-0.41657	-0.41657	-137.8	-469.9	
1993	797.2	2077.2	L: 129282 GLNWD NO C:BUS:EGC_345 Open 126299 REACBUS Open 126298 SPRBROOK Open 128830 HMP HRBR Open 128824 EGC DUM Open 128824 EGC DUM Open 128822 E.G.C.-1 Open 128823 E.G.C.-2	138	129293	SHORE RD	138	1	-303.9	-636.0	-0.41657	-0.41657	-137.8	-469.9	
1994	797.2	2077.2	L: 129282 GLNWD NO C:SPRN-BRK-345 Open 126298 SPRBROOK Open 126299 REACBUS Open 128830 HMP HRBR Open 128824 EGC DUM Open 128824 EGC DUM Open 128822 E.G.C.-1 Open 128823 E.G.C.-2	138	129293	SHORE RD	138	1	-303.9	-636.0	-0.41657	-0.41657	-137.8	-469.9	
1995	801.0	2081.0	L: 129242 NDNPT D C:129244 NDNPT D Open 126299 REACBUS Open 126298 SPRBROOK Open 128830 HMP HRBR Open 128824 EGC DUM Open 128824 EGC DUM Open 128822 E.G.C.-1 Open 128823 E.G.C.-2	138	129244	NDNPT D	138	1	548.0	675.0	0.15825	0.00000	446.7	446.7	

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			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1519												
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1													
2009	819.9	2099.9	L: 129265 CARLE PL	138	129270 E.G.C.	138	1													
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1520												
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1													
2016	829.4	2109.4	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1													
			C:129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	1628												
			Open 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1													
2054	847.5	2127.5	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198												
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1													
2058	848.3	2128.2	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465												
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1													
2061	849.4	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486												
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1													
2062	849.4	2129.3	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485												
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1													
2063	849.4	2129.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:BUS:EGC_345					1725												
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA											
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY													
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA											
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1													
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1													
2064	849.4	2129.4	L: 129283 GLNWD SO	138	129293 SHORE RD	138	1													
			C:SPRN-BRK-345					1881												
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY													
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA											
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA											
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA											
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA											
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1													
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1													
2083	859.0	2139.0	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1													
			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1519												
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1													
2084	859.1	2139.0	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1													
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1520												
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1													
2095	861.1	2141.0	*L: 129265 CARLE PL	138	129270 E.G.C.	138	1													
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1513												
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1													

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				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455										
				Open 126266 DUNWODIE		345 128835 SHORE RD	345	1				0.23349	1.00000	640.5	1528.9				
3955	890.6	2170.6	L:	128822 E.G.C.-1	345	128825 EGC PAR	345	1		-467.1	-675.0	-0.23349		0.00000	-318.0	-318.0			
				C:BUS:SHORE_RD_345					1724										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.23349	0.50089	319.6	765.7				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.23349	0.49911	318.5	763.0				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01530	0.00000	2.4	2.4				
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.01530	0.00000	-0.0	-0.0				
3957	890.6	2170.6	L:	128822 E.G.C.-1	345	129270 E.G.C.	138	1		467.0	675.0	0.23349		0.00000	318.0	318.0			
				C:BUS:SHORE_RD_345					1724										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.23349	0.50089	319.6	765.7				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.23349	0.49911	318.5	763.0				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.01530	0.00000	2.4	2.4				
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.01530	0.00000	-0.0	-0.0				
3970	891.4	2171.4	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-159.4	-636.0	-0.53462		-0.39475	-141.7	-493.6			
				C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1519										
				Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1				0.39333	-0.35563	-45.0	-362.0				
3972	891.5	2171.4	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-159.4	-636.0	-0.53462		-0.39475	-141.7	-493.6			
				C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1520										
				Open 129281 GLNWD GT	138	129288 ROSLYN	138	1				-0.39333	0.35563	44.9	362.0				
4032	897.1	2177.0	L:	129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		92.3	165.0	0.08106		0.06095	92.8	147.5			
				C:129270 E.G.C.	138	129288 ROSLYN	138	1	1513										
				Open 129270 E.G.C.	138	129288 ROSLYN	138	1				-0.05655	-0.35563	9.5	-309.5				
5662	900.0	2179.9	L:	129283 GLNWD SO	138	129293 SHORE RD	138	1		-141.7	-497.0	-0.39475							
				Base Case															
5695	900.6	2180.5	L:	128823 E.G.C.-2	345	128825 EGC PAR	345	1		-466.6	-675.0	-0.23145		0.00000	-318.3	-318.3			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.23145	1.00000	640.5	1541.1				
5723	901.5	2181.4	L:	128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		466.3	675.0	0.23145		0.00000	318.1	318.1			
				C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455										
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.23145	1.00000	640.5	1542.0				
5759	902.8	2182.7	L:	128823 E.G.C.-2	345	128825 EGC PAR	345	1		-466.0	-675.0	-0.23145		0.00000	-318.3	-318.3			
				C:BUS:SHORE_RD_345					1724										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.23145	0.50089	319.6	771.8				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.23145	0.49911	318.5	769.1				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01520	0.00000	2.4	2.4				
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.01520	0.00000	-0.0	-0.0				
5806	903.7	2183.6	L:	128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		465.8	675.0	0.23145		0.00000	318.1	318.1			
				C:BUS:SHORE_RD_345					1724										
				Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.23145	0.50089	319.6	772.3				
				Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.23145	0.49911	318.5	769.5				
				Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.01520	0.00000	2.4	2.4				
				Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.01520	0.00000	-0.0	-0.0				
7436	907.0	2186.9	L:	129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		118.1	165.0	0.05172		0.04758	108.2	151.4			
				C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624										
				Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.06518	0.06354	151.2	208.9				
7518	912.2	2188.2	L:	129283 GLNWD NO	138	129587 GLNWD NO	69.0	1		108.2	165.0	0.06005		0.06005	108.2	148.5			

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			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02454	0.00000	4.5	4.5
7531	914.5	2194.4	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.6
			C:BUS:EGC_345				1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02587	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.02454	0.00000	4.5	4.5
7532	914.5	2194.5	*L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1	109.3	165.0	0.06095	0.06095	92.8	148.6
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.02583	0.00000	-636.5	-636.5
7561	918.6	2198.6	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.3	165.0	0.04758	0.04758	108.2	151.9
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.02042	-0.00000	639.5	639.5
7569	919.1	2199.1	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.3	165.0	0.04758	0.04758	108.2	152.0
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.02042	0.00000	-638.3	-638.3
7570	919.8	2199.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0
			C:BUS:EGC_345				1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02046	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00008	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.01936	0.00000	4.5	4.5
7571	919.8	2199.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0
			C:SPRN-BRK-345				1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02046	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00008	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.01936	0.00000	4.5	4.5
7572	919.9	2199.8	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.02042	0.00000	-636.5	-636.5
7573	919.9	2199.8	*L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.02042	-0.00000	636.5	636.5
7628	931.5	2211.5	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-138.0	-636.0	-0.53462	-0.39475	-141.7	-509.5
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1513					
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.00000	0.00000	0.0	0.0



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13274	995.1	2275.0	L: Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.46494	1.00000	640.5	1633.6	
			L: 126266 DUNWODIE	345	126292	PL VILLE	345	1	-1081.3	-1811.0	-0.73327			
			Base Case											
14511	995.3	2275.3	L: 126299 REACBUS	345	147857	DVNPT NK	345	1	936.2	1399.0	0.46494	-0.00000	639.5	639.5
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1	0.46494	0.50089	319.6	818.2		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2	0.46494	0.49911	318.5	815.3		
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	0.03050	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1	0.03050	0.00000	-0.0	-0.0		
14790	999.4	2279.4	L: 128824 EGC DUM	345	128830	HMP HRBR	345	1	-934.3	-1399.0	-0.46494	0.00000	-636.5	-636.5
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	-0.46494	1.00000	640.5	1639.9		
14791	999.4	2279.4	L: 128824 EGC DUM	345	128825	EGC PAR	345	1	934.3	1399.0	0.46494	-0.00000	636.5	636.5
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	0.46494	1.00000	640.5	1639.9		
14823	1001.6	2281.6	L: 128824 EGC DUM	345	128830	HMP HRBR	345	1	-933.3	-1399.0	-0.46494	0.00000	-636.5	-636.5
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1	-0.46494	0.50089	319.6	821.3		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2	-0.46494	0.49911	318.5	818.4		
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	-0.03050	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1	-0.03050	0.00000	-0.0	-0.0		
14824	1001.6	2281.6	L: 128824 EGC DUM	345	128825	EGC PAR	345	1	933.3	1399.0	0.46494	-0.00000	636.5	636.5
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1	0.46494	0.50089	319.6	821.3		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2	0.46494	0.49911	318.5	818.4		
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	0.03050	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1	0.03050	0.00000	-0.0	-0.0		
14896	1020.1	2300.1	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	48.2	235.0	0.18310			
			Base Case											
14925	1038.6	2318.6	L: 129305 LCST GRV	138	129310	NEWBRGE	138	1	-218.1	-378.0	-0.15396			
			Base Case											
15119	1163.6	2443.5	L: 129244 GRT NECK	138	129537	GRT NECK	69.0	2	79.0	118.0	0.03352			
			Base Case											
15120	1163.6	2443.5	L: 129244 GRT NECK	138	129537	GRT NECK	69.0	1	79.0	118.0	0.03352			
			Base Case											
15191	1167.0	2446.9	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	55.5	253.0	0.16927			
			Base Case											
22116	1198.7	2478.6	L: Interface 57 J-to-K						417.4	869.0	0.37671	0.00000	176.2	176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	0.37671	1.00000	640.5	1839.2		
22117	1198.7	2478.6	L: Interface 58 K-to-J						-417.4	-869.0	-0.37671	0.00000	-176.2	-176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	-0.37671	1.00000	640.5	1839.2		
22118	1198.7	2478.6	L: Interface 18 NYC-LIPA						417.4	869.0	0.37671	0.00000	176.2	176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1	0.37671	1.00000	640.5	1839.2		
22156	1201.1	2481.0	L: Interface 56 K-to-J						1700.0	2011.0	1.00000	1.00000	1200.0	2481.0





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			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1				0.55857	0.05776	-283.5	-195.6
24170	1524.8	2804.7	L: Interface 56 K-to-I					-1429.7	-2911.0	-0.97149		-1.00000	-1280.0	-2804.7
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				0.59147	0.04821	-253.2	-179.7
24171	1524.8	2804.7	L: Interface 55 I-to-K					1429.7	2911.0	0.97149		1.00000	1280.0	2804.7
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				-0.59147	0.04821	-253.2	-179.7
24172	1526.1	2806.1	L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1252.6	-2384.0	-0.74133		-0.73327	-1081.3	-2200.4
			C:SIN:440											1786
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.16310	0.04938	1050.1	1125.5
24173	1526.1	2806.1	*L: 126266 DUNWODIE	345	126292 PL VILLE	345	1	-1252.6	-2384.0	-0.74133		-0.73327	-1081.3	-2200.4
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69						
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1				-0.16310	0.04938	1050.1	1125.5
24177	1530.8	2810.7	*L: Interface 55 I-to-K					1421.4	2911.0	0.97307		1.00000	1280.0	2810.7
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1607						
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				-0.55855	0.04821	-253.3	-179.5
24178	1530.8	2810.7	*L: Interface 56 K-to-I					-1421.4	-2911.0	-0.97307		-1.00000	-1280.0	-2810.7
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1607						
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				0.55855	0.04821	-253.3	-179.5
24179	1530.9	2810.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	100.1	165.0	0.04239		0.03352	79.0	130.3
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.13958	0.06354	151.2	248.5
24180	1530.9	2810.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	100.1	165.0	0.04239		0.03352	79.0	130.3
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.13958	0.06354	151.2	248.5
24188	1547.7	2827.7	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	89.9	339.0	0.16098		0.12323	68.8	259.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	2	1529						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2				0.30627	0.12323	68.8	259.5
24189	1547.7	2827.7	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	89.9	339.0	0.16098		0.12323	68.8	259.5
			C:129310 NEWBRGE	138	129361 RULND RD	138	1	1528						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1				0.30627	0.12323	68.8	259.5
24190	1548.8	2828.8	L: Interface 17 I-TO-J+K					4821.2	6370.0	1.00000				
			Base Case											
24202	1565.3	2845.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	105.5	339.0	0.14916		0.12323	68.8	261.7
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1525						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1				-0.16841	-0.15396	-218.1	-459.1
24203	1565.3	2845.3	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	105.5	339.0	0.14916		0.12323	68.8	261.7
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1525						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1				-0.16841	-0.15396	-218.1	-459.1
24204	1576.0	2855.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	68.8	263.0	0.12323				
			Base Case											
24205	1576.0	2855.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	68.8	263.0	0.12323				
			Base Case											
24206	1576.4	2856.4	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-266.3	-636.0	-0.23449		-0.23449	-179.8	-549.5
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				0.25896	0.00000	-334.2	-334.2
24207	1577.0	2857.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-266.3	-636.0	-0.23449		-0.23449	-179.8	-549.5

I-to-K

			C:129362 RUL PAR	138	129421 HOLBROOK	138	1	1557											
			Open 129362 RUL PAR		138 129421 HOLBROOK	138	1							-0.46421	0.00000	-184.9	-184.9		
24248	1590.7	2870.7	L: 129310 NEWBRGE	138	129361 RULND RD	138	1		88.5	339.0	0.15748			0.12323	68.8	264.8			
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1530											
			Open 129310 NEWBRGE		138 129361 RULND RD	138	3							0.29963	0.11431	65.8	247.6		
24249	1590.7	2870.7	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		88.5	339.0	0.15748			0.12323	68.8	264.8			
			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1530											
			Open 129310 NEWBRGE		138 129361 RULND RD	138	3							0.29963	0.11431	65.8	247.6		
24260	1594.9	2874.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		84.6	165.0	0.05042			0.03352	79.0	132.5			
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO		138 129293 SHORE RD	138	1							-0.04056	-0.41657	-137.8	-802.2		
24261	1594.9	2874.9	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.6	165.0	0.05042			0.03352	79.0	132.5			
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO		138 129293 SHORE RD	138	1							-0.04056	-0.41657	-137.8	-802.2		
24307	1623.1	2903.0	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		97.8	165.0	0.04141			0.03352	79.0	133.4			
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1625											
			Open 129248 L SUCS		138 129543 LKE SCSS	69.0	2							0.13588	0.05810	138.2	232.5		
24308	1623.1	2903.0	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		97.8	165.0	0.04141			0.03352	79.0	133.4			
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1625											
			Open 129248 L SUCS		138 129543 LKE SCSS	69.0	2							0.13588	0.05810	138.2	232.5		
27587	1632.8	2912.7	L: 91 JEFFERSN	500	126250 RAMAPO 5	500	1		1020.3	1373.0	0.21604			-0.00000	1004.2	1004.2			
			C:BUS:PLVILLE_345					1723											
			Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1							-0.00135	0.00625	45.2	55.4		
			Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01		NA										
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1							0.00223	-0.73327	-1081.3	-2278.6		
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1							-0.21768	-1.00000	-85.3	-1718.1		
27588	1632.8	2912.7	L: 91 JEFFERSN	500	126250 RAMAPO 5	500	1		1020.3	1373.0	0.21604			-0.00000	1004.2	1004.2			
			C:SER:F38&Y86					1683											
			Open 126281 FISHKILL	345	126292 PL VILLE	345	1							-0.00223	-0.26048	1041.2	615.9		
			Open 126292 PL VILLE	345	126733 PLTVILLE	13.8	1							0.00088	0.00625	45.2	55.4		
			Open 120801 STARS-00901	13.8	126292 PL VILLE	345	01		NA										
			Open 126266 DUNWODIE	345	126292 PL VILLE	345	1							-0.21545	-1.00000	-85.3	-1718.1		
27777	1649.5	2929.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.5	165.0	0.04881			0.03352	79.0	134.3			
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1522											
			Open 129283 GLNWD SO		138 129293 SHORE RD	138	1							-0.03874	-0.39475	-141.7	-792.9		
27778	1649.5	2929.4	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		84.5	165.0	0.04881			0.03352	79.0	134.3			
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1522											
			Open 129283 GLNWD SO		138 129293 SHORE RD	138	1							-0.03874	-0.39475	-141.7	-792.9		
27813	1660.3	2940.2	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		174.3	491.0	0.19077			0.19077	48.1	364.9			
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1							-0.19105	0.00000	-660.2	-660.2		
27814	1663.3	2943.2	L: Interface 15 I-to-K						1708.7	3372.0	1.00000			1.00000	1278.8	2942.0			
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1							-0.65124	0.00000	-660.2	-660.2		
27815	1664.6	2944.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		133.9	339.0	0.12323			0.12323	68.8	273.9			
			C:129343 NRTHTPT P	138	129344 NRTHTPT1	138	1	1546											
			Open 129343 NRTHTPT P	138	129344 NRTHTPT1	138	1							0.14568	0.00000	446.7	446.7		

I-to-K

27849	1673.6	2953.5	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	243.6	636.0	0.23449	0.23449	179.5	571.9
			C:129355 PILGRIM	138	129356 PILGRM P	138	1 1551						
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1			0.38870	0.00000	164.9	164.9
27850	1674.6	2954.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	89.2	339.0	0.14916	0.12323	68.8	275.2
			C:129305 LCST GRV	138	129315 SYOSSET	138	1 1526						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1			0.16841	0.15396	121.3	379.1
27851	1674.6	2954.6	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	89.2	339.0	0.14916	0.12323	68.8	275.2
			C:129305 LCST GRV	138	129315 SYOSSET	138	1 1526						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1			0.16841	0.15396	121.3	379.1
27889	1690.9	2970.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	64.3	491.0	0.25234	0.19077	48.1	370.7
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	2 1516						
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	2			0.33622	0.18310	48.2	357.8
27897	1712.6	2992.6	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	66.8	491.0	0.24770	0.19077	48.1	374.8
			C:129270 E.G.C.	138	129310 NEWBRGE	138	3 1515						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3			0.33633	0.16927	55.5	345.4
27908	1725.5	3005.5	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	64.4	491.0	0.24723	0.18310	48.2	364.2
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1 1514						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	1			0.33615	0.19077	48.1	377.3
27910	1729.9	3009.8	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	194.0	335.0	0.08151	0.06354	151.2	261.1
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2 1625						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2			0.30935	0.05810	138.2	238.7
27921	1734.3	3014.2	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2	138.2	239.0	0.05810			
			Base Case										
27923	1736.8	3016.8	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	173.0	491.0	0.18310	0.18310	48.2	366.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1 1489						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.18897	0.00000	-660.2	-660.2
27924	1738.6	3018.6	L: Interface	15	I-to-K			1633.4	3372.0	1.00000	1.00000	1278.8	3017.4
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1 1546						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.79373	0.00000	446.7	446.7
27934	1748.4	3028.3	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-328.8	-598.0	-0.15396	-0.15396	-218.1	-487.3
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1 1546						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			-0.24787	0.00000	446.7	446.7
28025	1895.1	3175.0	L: Interface	15	I-to-K			1476.9	3372.0	1.00000	1.00000	1278.8	3173.9
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1 1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.59284	0.00000	-334.2	-334.2
28032	1965.0	3244.9	L: Interface	15	I-to-K			1407.0	3372.0	1.00000	1.00000	1278.8	3243.7
			C:SIN:250				1780						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28033	1967.4	3247.3	L: Interface	15	I-to-K			1404.6	3372.0	1.00000	1.00000	1278.8	3246.2
			C:GEN:MLS3&OMS				1676						
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2			-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28034	1967.4	3247.3	L: Interface	15	I-to-K			1404.6	3372.0	1.00000	1.00000	1278.8	3246.2
			C:GEN:MILLST 3				1674						
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7 MW	dispatch							
28035	1967.4	3247.3	L: Interface	15	I-to-K			1404.6	3372.0	1.00000	1.00000	1278.8	3246.2

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			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1												
29541	2339.3	3619.3	L: Interface	20	LI SUM				1901.7	4241.0	1.00000								
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1546											
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1												
29545	2404.0	3684.0	L: Interface	78	LIPA Export				-3184.8	-5450.0	-0.94224								
			C:129024 NRTPTG1	22.0	129346 NRTHPT3	138	1	1606											
			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1												
29546	2404.1	3684.0	L: Interface	78	LIPA Export				-3184.8	-5450.0	-0.94224								
			C:129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1	1608											
			Open 129026 NRTPTG3	22.0	129342 NRTHPRT2	138	1												
29547	2411.6	3691.6	L: Interface	78	LIPA Export				-3154.6	-5450.0	-0.95179								
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1607											
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1												
29548	2411.7	3691.7	L: Interface	78	LIPA Export				-3154.5	-5450.0	-0.95179								
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1609											
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1												
29549	2476.2	3756.2	L: Interface	78	LIPA Export				-3086.9	-5450.0	-0.95431								
			C:129092 PTJEFG3	20.0	129448 PT JEFF1	138	1	1614											
			Open 129092 PTJEFG3	20.0	129448 PT JEFF1	138	1												
29550	2476.7	3756.6	L: Interface	78	LIPA Export				-3084.9	-5450.0	-0.95493								
			C:128900 BARETG1	20.0	129202 BARRETT1	138	1	1600											
			Open 128900 BARETG1	20.0	129202 BARRETT1	138	1												
29551	2477.3	3757.3	L: Interface	78	LIPA Export				-3084.4	-5450.0	-0.95493								
			C:129093 PTJEFG4	20.0	129449 PT JEFF2	138	1	1615											
			Open 129093 PTJEFG4	20.0	129449 PT JEFF2	138	1												
29552	2477.4	3757.4	L: Interface	78	LIPA Export				-3084.3	-5450.0	-0.95493								
			C:128901 BARETG2	20.0	129203 BARRETT2	138	1	1601											
			Open 128901 BARETG2	20.0	129203 BARRETT2	138	1												
29553	2514.2	3794.2	L: Interface	78	LIPA Export				-3064.8	-5450.0	-0.94871								
			C:121101 STARS-01101	13.8	129361 RULND RD	138	01	1595											
			Open 121101 STARS-01101	13.8	129361 RULND RD	138	01												
29554	2514.2	3794.2	*L: Interface	78	LIPA Export				-3064.8	-5450.0	-0.94871								
			C:121102 STARS-01102	13.8	129361 RULND RD	138	02	1596											
			Open 121102 STARS-01102	13.8	129361 RULND RD	138	02												
29560	2528.6	3808.5	L: Interface	20	LI SUM				1712.4	4241.0	1.00000								
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1494											
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1												
31063	2596.7	3876.6	L: Interface	20	LI SUM				1644.3	4241.0	1.00000								
			C:SIN:250					1780											
			Open 100508 SANDB115	115	100509 SB RCTOR	115	2												
			Remove unit 3	from bus	103563 MILL#3	24.0	1284.7	MW	dispatch										
31064	2601.6	3881.6	L: Interface	20	LI SUM				1639.4	4241.0	1.00000								
			C:GEN:MILLST 3					1674											
			Remove unit 3	from bus	103563 MILL#3	24.0	1284.7	MW	dispatch										
31065	2601.6	3881.6	L: Interface	20	LI SUM				1639.4	4241.0	1.00000								
			C:GEN:MILLST 3					1674											





# LIPA\_Import

PSS(R)MUST 10.2 -- Managing and Utilizing System Transmission -- SUN, FEB 19 2012 10:54  
 HORIZON YEAR SU PEAK LOAD 40,816 MW  
 ICAP TRIAL #9  
 Case.File ICAP-T9-Rev3-LIPA-Import.sav  
 Subsys.File STARS-TTL.SUB  
 Monit.File STARS-TTL.MON  
 Contin.File STARS-TTL.CON  
 Exclud.File ICAP.exc

Study transfer level - 3000.0 MW. Total violations: 29005  
 First violation - -185.3 MW.

Study transfer. From ABCDEFG\_EXP To K\_IMPORT . Transfer level - 3000.0 MW

Violations report ordered by transfer capability. Total 29005 violations

Interface-1 Interface 19 LIPA IMPORT Init.Flow= 2900.17 TDF= 1.0000

N	FCITC	IntFcel	L: Limiting constraint	___Ncon	PreShift Flow	MW Rating	TDF	LODF	PTDF	=Base Case Flow=	Init	Final	
1	-185.3	2714.8	L: Interface 78 LIPA Export Base Case		-2901.3	-2716.0	-1.00000						
2	-124.2	2776.0	L: Interface 19 LIPA IMPORT Base Case		2900.2	2776.0	1.00000						
3	12.5	2912.7	L: 126266 DUNWODIE Base Case	345 128835	SHORE RD	345 1	640.5	653.0	1.00000				
4	81.0	2981.2	L: Interface 55 I-to-K Base Case		1280.0	1361.0	1.00000						
5	81.0	2981.2	L: Interface 56 K-to-I Base Case		-1280.0	-1361.0	-1.00000						
6	142.2	3042.4	L: Interface 15 I-to-K Base Case		1278.8	1421.0	1.00000						
7	205.2	3105.4	L: 129283 GLNWD SO Base Case	138 129588	GLNWD SO	69.0 1	108.2	118.0	0.04758				
8	324.2	3224.3	L: 128835 SHORE RD Base Case	345 129293	SHORE RD	138 1	319.6	482.0	0.50089				
9	327.6	3227.8	L: 128835 SHORE RD Base Case	345 129293	SHORE RD	138 2	318.5	482.0	0.49911				
10	409.3	3309.4	L: 128835 SHORE RD C:128835 SHORE RD Open 128835 SHORE RD	345 129293 345 129293	SHORE RD SHORE RD	138 1 138 2	469.1	770.0	0.73515	0.50089	319.6	524.6	
11	411.3	3311.4	L: 128835 SHORE RD C:128835 SHORE RD Open 128835 SHORE RD	345 129293 345 129293	SHORE RD SHORE RD	138 2 138 1	468.2	770.0	0.73376	0.46935	0.49911	318.5	523.8
12	413.1	3313.2	L: 128835 SHORE RD C:128835 SHORE RD Open 128835 SHORE RD	345 129293 345 129293	SHORE RD SHORE RD	138 1 138 1	468.8	770.0	0.73515	0.46847	0.50089	319.6	525.6

# LIPA\_Import

			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1				-0.01295	0.00000	-0.0	-0.0	
16	433.5	3333.7	L: 126452	HUDAVE E	138	126455	JAMAICA	138	2		358.6	406.0	0.10944		0.00000	288.7	288.7	
			C:BUS:SHORE_RD_345															
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1					0.10944	0.50089	319.6	536.8
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2					0.10944	0.49911	318.5	534.9
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1					-0.01295	0.00000	2.4	2.4
			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1					-0.01295	0.00000	-0.0	-0.0
17	476.1	3376.2	L: Interface	20	LI SUM						1454.9	1931.0	1.00000					
			Base Case															
18	513.6	3413.8	L: 126455	JAMAICA	138	129249	L SUCSPH	138	1		277.8	428.0	0.29244		0.00000	90.5	90.5	
			C:126266 DUNWODIE 345 128835 SHORE RD 345 1 1455															
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1					0.29244	1.00000	640.5	1154.1
19	516.0	3416.2	L: 126455	JAMAICA	138	129249	L SUCSPH	138	1		277.1	428.0	0.29244		0.00000	90.5	90.5	
			C:BUS:SHORE_RD_345															
			Open	128835	SHORE RD	345	129293	SHORE RD	138	1					0.29244	0.50089	319.6	578.1
			Open	128835	SHORE RD	345	129293	SHORE RD	138	2					0.29244	0.49911	318.5	576.0
			Open	126266	DUNWODIE	345	128835	SHORE RD	345	1					-0.00476	0.00000	2.4	2.4
			Open	150	DUNWD SW	345	126266	DUNWODIE	345	1					-0.00476	0.00000	-0.0	-0.0
20	516.5	3416.7	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-195.3	-379.0	-0.35563		-0.35563	-45.0	-228.7	
			C:126299 REACBUS 345 147857 DVNPT NK 345 1 198															
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1					-0.23507	-0.00000	639.5	639.5
21	516.7	3416.9	L: 129281	GLNWD GT	138	129288	ROSLYN	138	1		195.2	379.0	0.35563		0.35563	44.9	228.7	
			C:126299 REACBUS 345 147857 DVNPT NK 345 1 198															
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1					0.23507	-0.00000	639.5	639.5
22	517.3	3417.5	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-195.0	-379.0	-0.35563		-0.35563	-45.0	-229.0	
			C:128830 HMP HRBR 345 147857 DVNPT NK 345 1 1465															
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1					0.23507	0.00000	-638.3	-638.3
23	517.5	3417.6	L: 129281	GLNWD GT	138	129288	ROSLYN	138	1		195.0	379.0	0.35563		0.35563	44.9	229.0	
			C:128830 HMP HRBR 345 147857 DVNPT NK 345 1 1465															
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1					-0.23507	0.00000	-638.3	-638.3
24	518.5	3418.6	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-194.6	-379.0	-0.35563		-0.35563	-45.0	-229.4	
			C:128824 EGC DUM 345 128830 HMP HRBR 345 1 1486															
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1					0.23507	0.00000	-636.5	-636.5
25	518.5	3418.6	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-194.6	-379.0	-0.35563		-0.35563	-45.0	-229.4	
			C:128824 EGC DUM 345 128825 EGC PAR 345 1 1485															
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1					-0.23507	-0.00000	636.5	636.5
26	518.5	3418.6	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-194.6	-379.0	-0.35563		-0.35563	-45.0	-229.4	
			C:SPRN-BRK-345															
			Open	126298	SPRBROOK	345	126299	REACBUS	345	BY					-0.23473	-0.00000	640.9	640.9
			Open	126299	REACBUS	345	147857	DVNPT NK	345	1		NA						
			Open	128830	HMP HRBR	345	147857	DVNPT NK	345	1		NA						
			Open	128824	EGC DUM	345	128830	HMP HRBR	345	1		NA						
			Open	128824	EGC DUM	345	128825	EGC PAR	345	1		NA						
			Open	128822	E.G.C.-1	345	128825	EGC PAR	345	1					0.00067	0.00000	-318.0	-318.0
			Open	128823	E.G.C.-2	345	128825	EGC PAR	345	1					0.22580	0.00000	4.5	4.5
27	518.5	3418.6	L: 129281	GLNWD GT	138	129282	GLNWD NO	138	1		-194.6	-379.0	-0.35563		-0.35563	-45.0	-229.4	
			C:BUS:SHORE_RD_345															

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			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.23507	-0.00000	636.5	636.5
30	518.7	3418.8	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4
			C:BUS:EGC_345				1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23473	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00067	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22580	0.00000	4.5	4.5
31	518.7	3418.8	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1	194.6	379.0	0.35563	0.35563	44.9	229.4
			C:SPRN-BRK-345				1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.23473	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00067	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.22580	0.00000	4.5	4.5
32	530.7	3430.8	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	981.3	1512.0	1.00000	1.00000	640.5	1171.2
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198					
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			0.53302	-0.00000	639.5	639.5
33	531.3	3431.5	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	980.7	1512.0	1.00000	1.00000	640.5	1171.8
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			-0.53302	0.00000	-638.3	-638.3
34	532.2	3432.3	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:SPRN-BRK-345				1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.53278	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00047	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.49848	0.00000	4.5	4.5
35	532.2	3432.3	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:BUS:EGC_345				1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.53278	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00047	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.49848	0.00000	4.5	4.5
36	532.2	3432.4	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	979.8	1512.0	1.00000	1.00000	640.5	1172.7
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.53302	0.00000	-636.5	-636.5
37	532.2	3432.4	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1	979.8	1512.0	1.00000	1.00000	640.5	1172.7

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			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1465										
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1					-0.26698	0.00000	-638.3	-638.3			
42	559.3	3459.5	L: 129270 E.G.C.	138	129288	ROSLYN	138	1					-140.1	-339.0	-0.35563		-0.35563	9.5	-189.4
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1486										
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											
43	559.3	3459.5	L: 129270 E.G.C.	138	129288	ROSLYN	138	1					-140.1	-339.0	-0.35563		-0.35563	9.5	-189.4
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1485										
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1											
44	559.3	3459.5	L: 129270 E.G.C.	138	129288	ROSLYN	138	1					-140.1	-339.0	-0.35563		-0.35563	9.5	-189.4
			C:BUS:EGC_345						1725										
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1											
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY											
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1											
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1											
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1											
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1											
45	559.3	3459.5	L: 129270 E.G.C.	138	129288	ROSLYN	138	1					-140.1	-339.0	-0.35563		-0.35563	9.5	-189.4
			C:SPRN-BRK-345						1881										
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY											
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1											
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1											
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1											
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1											
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1											
46	559.8	3460.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1					489.6	770.0	0.50089		0.50089	319.6	600.0
			C:SPRN-BRK-345						1881										
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY											
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1											
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1											
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1											
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1											
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1											
47	559.8	3460.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1					489.6	770.0	0.50089		0.50089	319.6	600.0
			C:BUS:EGC_345						1725										
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1											
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY											
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1											
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1											
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1											
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1											
48	559.9	3460.0	L: 128835 SHORE RD	345	129293	SHORE RD	138	1					489.6	770.0	0.50089		0.50089	319.6	600.1
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1486										
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1											

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53	565.3	3465.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	487.9	770.0	0.49911		0.49911	318.5	600.6
			C:BUS:EGC_345											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26592	-0.00000		640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000		-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.24880	0.00000		4.5	4.5
54	565.3	3465.4	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	487.9	770.0	0.49911		0.49911	318.5	600.6
			C:SPRN-BRK-345											
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.26592	-0.00000		640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1	NA						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1	NA						
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			-0.00023	0.00000		-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.24880	0.00000		4.5	4.5
55	565.3	3465.5	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	487.8	770.0	0.49911		0.49911	318.5	600.7
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.26604	0.00000		-636.5	-636.5
56	565.3	3465.5	L: 128835 SHORE RD	345	129293 SHORE RD	138	2	487.8	770.0	0.49911		0.49911	318.5	600.7
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.26604	-0.00000		636.5	636.5
57	565.4	3465.5	L: 126280 FARRAGUT TX9	345	126437 FGT_X9	138	1	174.7	216.0	0.07300		-0.00000	128.2	128.2
			C:BUS:SHORE_RD_345											
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.07300	0.50089		319.6	602.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.07300	0.49911		318.5	600.7
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00864	0.00000		2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.00864	0.00000		-0.0	-0.0
58	572.8	3473.0	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-180.1	-379.0	-0.34717		-0.34717	-33.5	-232.4
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1			-0.22933	-0.00000		639.5	639.5
59	573.6	3473.8	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.9	-379.0	-0.34717		-0.34717	-33.5	-232.6
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1			0.22933	0.00000		-638.3	-638.3
60	574.8	3474.9	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.5	-379.0	-0.34717		-0.34717	-33.5	-233.0
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			0.22933	0.00000		-636.5	-636.5
61	574.8	3474.9	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.5	-379.0	-0.34717		-0.34717	-33.5	-233.0
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			-0.22933	-0.00000		636.5	636.5
62	574.8	3474.9	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1	-179.5	-379.0	-0.34717		-0.34717	-33.5	-233.0
			C:BUS:EGC_345											
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1	NA						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			-0.22900	-0.00000		640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1	NA						

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			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1				0.22029	0.00000	4.5	4.5
64	579.0	3479.1	L: 126277 FARRAGUT	345	126451	FGT_X8	138	1	173.7	216.0	0.07298		-0.00000	127.0	127.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.07298	1.00000	640.5	1219.4
65	580.2	3480.4	L: 126277 FARRAGUT	345	126436	FGT_X10	138	1	173.7	216.0	0.07291		-0.00000	127.0	127.0
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.07291	1.00000	640.5	1220.7
66	581.6	3481.8	L: 126277 FARRAGUT	345	126451	FGT_X8	138	1	173.6	216.0	0.07298		-0.00000	127.0	127.0
			C:BUS:SHORE_RD_345						1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				0.07298	0.50089	319.6	610.9
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				0.07298	0.49911	318.5	608.8
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.00864	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				-0.00864	0.00000	-0.0	-0.0
67	582.8	3483.0	L: 126277 FARRAGUT	345	126436	FGT_X10	138	1	173.5	216.0	0.07291		-0.00000	127.0	127.0
			C:BUS:SHORE_RD_345						1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				0.07291	0.50089	319.6	611.6
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				0.07291	0.49911	318.5	609.4
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.00863	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				-0.00863	0.00000	-0.0	-0.0
68	584.4	3484.5	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-93.0	-379.0	-0.48939		-0.35563	-45.0	-252.8
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1522						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1				0.33887	-0.39475	-141.7	-372.4
69	584.5	3484.6	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	93.0	379.0	0.48939		0.35563	44.9	252.8
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1522						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1				-0.33887	-0.39475	-141.7	-372.5
70	589.6	3489.8	L: 129248 L SUCS	138	129249	L SUCSPH	138	1	-277.6	-450.0	-0.29244		0.00000	-90.3	-90.3
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				-0.29244	1.00000	640.5	1230.1
71	592.0	3492.2	L: 129248 L SUCS	138	129249	L SUCSPH	138	1	-276.9	-450.0	-0.29244		0.00000	-90.3	-90.3
			C:BUS:SHORE_RD_345						1724						
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1				-0.29244	0.50089	319.6	616.2
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2				-0.29244	0.49911	318.5	614.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1				0.00476	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1				0.00476	0.00000	-0.0	-0.0
72	613.3	3513.4	L: 129265 CARLE PL	138	129283	GLNWD SO	138	1	-80.0	-379.0	-0.48763		-0.34717	-33.5	-246.4
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1521						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				0.33718	-0.41657	-137.8	-393.3
73	614.0	3514.2	L: 129270 E.G.C.	138	129288	ROSLYN	138	1	-38.5	-339.0	-0.48939		-0.35563	9.5	-208.8
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1	1522						
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1				0.33887	-0.39475	-141.7	-384.1
74	658.2	3558.4	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	116.7	165.0	0.07331		0.04758	108.2	139.6
			C:129282 GLNWD NO	138	129293	SHORE RD	138	1	1521						
			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				-0.06176	-0.41657	-137.8	-412.0
75	667.0	3567.2	L: 129281 GLNWD GT	138	129282	GLNWD NO	138	1	-57.2	-379.0	-0.48243		-0.35563	-45.0	-282.2
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511						
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1				0.36526	-0.34717	-33.5	-265.0
76	667.1	3567.3	L: 129281 GLNWD GT	138	129288	ROSLYN	138	1	-57.2	-379.0	-0.48243		-0.35563	-45.0	-282.2

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			C:129281 GLNWD GT	138	129282 GLNWD NO	138	1	1519											
			Open 129281 GLNWD GT	138	129282 GLNWD NO	138	1							0.35897	-0.35563	-45.0	-291.7		
81	693.7	3593.9	L: 129265 CARLE PL	138	129283 GLNWD SO	138	1												
			C:129281 GLNWD GT	138	129288 ROSLYN	138	1	1520											
			Open 129281 GLNWD GT	138	129288 ROSLYN	138	1												
82	695.7	3595.9	L: 128835 SHORE RD	345	129293 SHORE RD	138	1												
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1												
83	697.1	3597.3	L: 129270 E.G.C.	138	129288 ROSLYN	138	1												
			C:129265 CARLE PL	138	129283 GLNWD SO	138	1	1511											
			Open 129265 CARLE PL	138	129283 GLNWD SO	138	1												
84	700.5	3600.7	L: 126266 DUNWODIE	345	128835 SHORE RD	345	1												
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1546											
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1												
85	701.2	3601.3	L: 128835 SHORE RD	345	129293 SHORE RD	138	2												
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1												
86	702.6	3602.8	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1												
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1522											
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1												
87	708.6	3608.8	L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1												
			Base Case																
88	708.8	3609.0	L: 129281 GLNWD GT	138	129288 ROSLYN	138	1												
			Base Case																
89	726.7	3626.8	L: 129270 E.G.C.	138	129288 ROSLYN	138	1												
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1												
90	728.1	3628.3	L: 128835 SHORE RD	345	129293 SHORE RD	138	1												
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1546											
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1												
91	733.6	3633.8	L: 128835 SHORE RD	345	129293 SHORE RD	138	2												
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1546											
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1												
92	734.9	3635.0	*L: 129265 CARLE PL	138	129283 GLNWD SO	138	1												
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1513											
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1												
93	736.2	3636.3	L: 129265 CARLE PL	138	129270 E.G.C.	138	1												
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1												
95	742.6	3642.8	*L: 129281 GLNWD GT	138	129282 GLNWD NO	138	1												
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1510											
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1												
96	742.8	3642.9	*L: 129281 GLNWD GT	138	129288 ROSLYN	138	1												
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1510											
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1												
99	745.5	3645.6	L: 129265 CARLE PL	138	129270 E.G.C.	138	1												
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1												

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			Open 126298	SPRBROOK	345	126299	REACBUS	345	BY			0.22900	-0.00000	640.9	640.9
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824	EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824	EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1			-0.00065	0.00000	-318.0	-318.0
			Open 128823	E.G.C.-2	345	128825	EGC PAR	345	1			-0.22029	0.00000	4.5	4.5
104	747.4	3647.6	L: 129265	CARLE PL	138	129270	E.G.C.	138	1	79.5	339.0	0.34717	0.34717	-66.4	193.0
			C:BUS:EGC_345						1725						
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1	NA					
			Open 126298	SPRBROOK	345	126299	REACBUS	345	BY			0.22900	-0.00000	640.9	640.9
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1	NA					
			Open 128824	EGC DUM	345	128830	HMP HRBR	345	1	NA					
			Open 128824	EGC DUM	345	128825	EGC PAR	345	1	NA					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1			-0.00065	0.00000	-318.0	-318.0
			Open 128823	E.G.C.-2	345	128825	EGC PAR	345	1			-0.22029	0.00000	4.5	4.5
105	753.8	3654.0	L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	758.2	1512.0	1.00000	1.00000	640.5	1394.3
			C:128822	E.G.C.-1	345	128825	EGC PAR	345	1	1481					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1			-0.36997	0.00000	-318.0	-318.0
106	753.9	3654.0	*L: 126266	DUNWODIE	345	128835	SHORE RD	345	1	758.1	1512.0	1.00000	1.00000	640.5	1394.3
			C:128822	E.G.C.-1	345	129270	E.G.C.	138	1	1482					
			Open 128822	E.G.C.-1	345	129270	E.G.C.	138	1			0.36997	0.00000	318.0	318.0
109	759.0	3659.2	L: 129265	CARLE PL	138	129283	GLNWD SO	138	1	-33.5	-297.0	-0.34717			
			Base Case												
110	761.6	3661.8	L: 129282	GLNWD NO	138	129293	SHORE RD	138	1	-195.8	-636.0	-0.57799	-0.41657	-137.8	-455.1
			C:129283	GLNWD SO	138	129293	SHORE RD	138	1	1522					
			Open 129283	GLNWD SO	138	129293	SHORE RD	138	1			0.40892	-0.39475	-141.7	-442.4
111	766.4	3666.5	L: 129270	E.G.C.	138	129288	ROSLYN	138	1	9.5	-263.0	-0.35563			
			Base Case												
112	772.8	3672.9	*L: 129270	E.G.C.	138	129288	ROSLYN	138	1	33.8	-339.0	-0.48243	-0.35563	9.5	-265.3
			C:129265	CARLE PL	138	129270	E.G.C.	138	1	1510					
			Open 129265	CARLE PL	138	129270	E.G.C.	138	1			-0.36526	0.34717	-66.4	201.8
114	781.5	3681.6	*L: 128835	SHORE RD	345	129293	SHORE RD	138	1	378.6	770.0	0.50089	0.50089	319.6	711.1
			C:128822	E.G.C.-1	345	128825	EGC PAR	345	1	1481					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1			-0.18531	0.00000	-318.0	-318.0
118	783.1	3683.3	L: 129283	GLNWD SO	138	129293	SHORE RD	138	1	-196.7	-636.0	-0.56094	-0.39475	-141.7	-450.9
			C:129282	GLNWD NO	138	129293	SHORE RD	138	1	1521					
			Open 129282	GLNWD NO	138	129293	SHORE RD	138	1			0.39894	-0.41657	-137.8	-464.1
120	787.0	3687.1	*L: 128835	SHORE RD	345	129293	SHORE RD	138	2	377.2	770.0	0.49911	0.49911	318.5	711.3
			C:128822	E.G.C.-1	345	128825	EGC PAR	345	1	1481					
			Open 128822	E.G.C.-1	345	128825	EGC PAR	345	1			-0.18466	0.00000	-318.0	-318.0
132	795.4	3695.6	L: 129282	GLNWD NO	138	129293	SHORE RD	138	1	-304.7	-636.0	-0.41657	-0.41657	-137.8	-469.2
			C:126299	REACBUS	345	147857	DVNPT NK	345	1	198					
			Open 126299	REACBUS	345	147857	DVNPT NK	345	1			-0.26090	-0.00000	639.5	639.5
133	796.1	3696.3	L: 129282	GLNWD NO	138	129293	SHORE RD	138	1	-304.4	-636.0	-0.41657	-0.41657	-137.8	-469.5
			C:128830	HMP HRBR	345	147857	DVNPT NK	345	1	1465					
			Open 128830	HMP HRBR	345	147857	DVNPT NK	345	1			0.26090	0.00000	639.5	639.5



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			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00058	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.25035	0.00000	4.5	4.5	
138	797.2	3697.4	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1	-303.9	-636.0	-0.41657		-0.41657	-137.8	-469.9
			C:SPRN-BRK-345					1881							
			Open 126298 SPRBROOK	345	126299	REACBUS	345	BY				-0.26061	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		NA					
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00058	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.25035	0.00000	4.5	4.5	
140	801.0	3701.2	L: 129343 NRTHPT P	138	129344	NRTHPT1	138	1	548.2	675.0	0.15835		0.00000	446.7	446.7
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			0.15835	1.00000	640.5	1441.5	
141	803.7	3703.8	L: 129343 NRTHPT P	138	129344	NRTHPT1	138	1	547.7	675.0	0.15835		0.00000	446.7	446.7
			C:BUS:SHORE_RD_345					1724							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1			0.15835	0.50089	319.6	722.2	
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2			0.15835	0.49911	318.5	719.6	
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.02068	0.00000	2.4	2.4	
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1			-0.02068	0.00000	-0.0	-0.0	
144	807.4	3707.5	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	120.2	165.0	0.05545		0.04758	108.2	146.6
			C:129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	1627						
			Open 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1			0.12921	0.06095	92.8	142.0	
152	819.9	3720.0	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-50.3	339.0	0.47483		0.34717	-66.4	218.2
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1519						
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1			-0.35897	-0.35563	-45.0	-336.6	
153	819.9	3720.1	L: 129265 CARLE PL	138	129270	E.G.C.	138	1	-50.3	339.0	0.47483		0.34717	-66.4	218.2
			C:129281 GLNWD GT	138	129288	ROSLYN	138	1	1520						
			Open 129281 GLNWD GT	138	129288	ROSLYN	138	1			0.35897	0.35563	44.9	336.5	
160	829.4	3729.6	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1	108.7	165.0	0.06792		0.06095	92.8	143.4
			C:129283 GLNWD SO	138	129588	GLNWD SO	69.0	1	1628						
			Open 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1			0.14644	0.04758	108.2	147.7	
198	847.5	3747.7	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-301.4	-636.0	-0.39475		-0.39475	-141.7	-476.3
			C:126299 REACBUS	345	147857	DVNPT NK	345	1	198						
			Open 126299 REACBUS	345	147857	DVNPT NK	345	1			-0.24975	-0.00000	639.5	639.5	
202	848.3	3748.4	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-301.1	-636.0	-0.39475		-0.39475	-141.7	-476.6
			C:128830 HMP HRBR	345	147857	DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1			0.24975	0.00000	-638.3	-638.3	
205	849.4	3749.5	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-300.7	-636.0	-0.39475		-0.39475	-141.7	-477.0
			C:128824 EGC DUM	345	128830	HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1			0.24975	0.00000	-636.5	-636.5	
206	849.4	3749.6	L: 129283 GLNWD SO	138	129293	SHORE RD	138	1	-300.7	-636.0	-0.39475		-0.39475	-141.7	-477.0
			C:128824 EGC DUM	345	128825	EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1			0.24975	0.00000	636.5	636.5	

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			Open 126299 REACBUS	345	147857	DVNPT NK	345	1		NA				
			Open 128830 HMP HRBR	345	147857	DVNPT NK	345	1		NA				
			Open 128824 EGC DUM	345	128830	HMP HRBR	345	1		NA				
			Open 128824 EGC DUM	345	128825	EGC PAR	345	1		NA				
			Open 128822 E.G.C.-1	345	128825	EGC PAR	345	1			0.00057	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825	EGC PAR	345	1			0.23965	0.00000	4.5	4.5
218	855.5	3755.6	L: 146758 CHESTER	138	146771	SHOEM138	138	1						
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	69					
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			-0.10850	0.21789	1050.1	1236.5
219	855.5	3755.6	L: 146758 CHESTER	138	146771	SHOEM138	138	1						
			C:SIN:440						1786					
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1			-0.10850	0.21789	1050.1	1236.5
229	859.0	3759.2	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1						
			C:129281 GLNWD GT	138	129282	GLNWD NO	138	1	1519					
			Open 129281 GLNWD GT	138	129282	GLNWD NO	138	1			-0.05655	-0.35563	-45.0	-350.5
230	859.1	3759.3	L: 129282 GLNWD NO	138	129587	GLNWD NO	69.0	1						
			C:129281 GLNWD GT	138	129288	ROSLYN	138	1	1520					
			Open 129281 GLNWD GT	138	129288	ROSLYN	138	1			0.05655	0.35563	44.9	350.4
241	861.1	3761.3	*L: 129265 CARLE PL	138	129270	E.G.C.	138	1						
			C:129270 E.G.C.	138	129288	ROSLYN	138	1	1513					
			Open 129270 E.G.C.	138	129288	ROSLYN	138	1			-0.35897	-0.35563	9.5	-296.7
249	862.2	3762.4	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1						
			Base Case											
291	867.9	3768.0	L: 129282 GLNWD NO	138	129293	SHORE RD	138	1						
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511					
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1			0.40817	-0.34717	-33.5	-334.8
1897	872.0	3772.1	L: 129283 GLNWD SO	138	129588	GLNWD SO	69.0	1						
			C:129265 CARLE PL	138	129283	GLNWD SO	138	1	1511					
			Open 129265 CARLE PL	138	129283	GLNWD SO	138	1			-0.04544	-0.34717	-33.5	-336.2
2077	888.4	3788.6	L: 128822 E.G.C.-1	345	128825	EGC PAR	345	1						
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.23349	1.00000	640.5	1528.9
2078	888.4	3788.6	L: 128822 E.G.C.-1	345	129270	E.G.C.	138	1						
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455					
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			0.23349	1.00000	640.5	1528.9
2098	890.6	3790.8	L: 128822 E.G.C.-1	345	128825	EGC PAR	345	1						
			C:BUS:SHORE_RD_345						1724					
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1			-0.23349	0.50089	319.6	765.7
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2			-0.23349	0.49911	318.5	763.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.01530	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1			-0.01530	0.00000	-0.0	-0.0
2100	890.6	3790.8	L: 128822 E.G.C.-1	345	129270	E.G.C.	138	1						
			C:BUS:SHORE_RD_345						1724					
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1			0.23349	0.50089	319.6	765.7
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2			0.23349	0.49911	318.5	763.0
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			0.01530	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1			0.01530	0.00000	0.0	0.0

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			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.23145	1.00000	640.5	1541.1
3862	901.5	3801.6	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		466.3	675.0	0.23145	0.00000	318.1	318.1
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.23145	1.00000	640.5	1542.0
3902	902.8	3802.9	L: 128823 E.G.C.-2	345	128825 EGC PAR	345	1		-466.0	-675.0	-0.23145	0.00000	-318.3	-318.3
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				-0.23145	0.50089	319.6	771.8
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				-0.23145	0.49911	318.5	769.1
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				-0.01520	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				-0.01520	0.00000	-0.0	-0.0
3940	903.7	3803.9	L: 128823 E.G.C.-2	345	129271 E.G.C.-2	138	1		465.8	675.0	0.23145	0.00000	318.1	318.1
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1				0.23145	0.50089	319.6	772.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2				0.23145	0.49911	318.5	769.5
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1				0.01520	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1				0.01520	0.00000	-0.0	-0.0
5579	907.0	3807.1	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1		118.1	165.0	0.05172	0.04758	108.2	151.4
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.06518	0.06354	151.2	208.9
5661	913.3	3813.4	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		109.3	165.0	0.06095	0.06095	92.8	148.5
			C:126299 REACBUS	345	147857 DVNPT NK	345	1	198						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1				0.02583	-0.00000	639.5	639.5
5671	913.8	3813.9	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		109.3	165.0	0.06095	0.06095	92.8	148.5
			C:128830 HMP HRBR	345	147857 DVNPT NK	345	1	1465						
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1				-0.02583	0.00000	-638.3	-638.3
5678	914.5	3814.7	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		109.3	165.0	0.06095	0.06095	92.8	148.6
			C:SPRN-BRK-345					1881						
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.02587	-0.00000	640.9	640.9
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA					
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.02454	0.00000	4.5	4.5
5679	914.5	3814.7	L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		109.3	165.0	0.06095	0.06095	92.8	148.6
			C:BUS:EGC_345					1725						
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1		NA					
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY				0.02587	-0.00000	640.9	640.9
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1		NA					
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1		NA					
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1				0.00009	0.00000	-318.0	-318.0
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1				-0.02454	0.00000	4.5	4.5
5680	914.5	3814.7	*L: 129282 GLNWD NO	138	129587 GLNWD NO	69.0	1		109.3	165.0	0.06095	0.06095	92.8	148.6
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1				0.02587	0.00000	639.5	639.5

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			Open 128824 EGC DUM	345	128825 EGC PAR	345	1		NA					
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00008	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.01936	0.00000	4.5	4.5	
5713	919.8	3820.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:SPRN-BRK-345											
			Open 126298 SPRBROOK	345	126299 REACBUS	345	BY			0.02046	-0.00000	640.9	640.9	
			Open 126299 REACBUS	345	147857 DVNPT NK	345	1							
			Open 128830 HMP HRBR	345	147857 DVNPT NK	345	1							
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1							
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1							
			Open 128822 E.G.C.-1	345	128825 EGC PAR	345	1			0.00008	0.00000	-318.0	-318.0	
			Open 128823 E.G.C.-2	345	128825 EGC PAR	345	1			-0.01936	0.00000	4.5	4.5	
5714	919.9	3820.0	L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:128824 EGC DUM	345	128830 HMP HRBR	345	1	1486						
			Open 128824 EGC DUM	345	128830 HMP HRBR	345	1			-0.02042	0.00000	-636.5	-636.5	
5715	919.9	3820.0	*L: 129283 GLNWD SO	138	129588 GLNWD SO	69.0	1	121.2	165.0	0.04758	0.04758	108.2	152.0	
			C:128824 EGC DUM	345	128825 EGC PAR	345	1	1485						
			Open 128824 EGC DUM	345	128825 EGC PAR	345	1			0.02042	-0.00000	636.5	636.5	
5775	931.5	3831.7	*L: 129283 GLNWD SO	138	129293 SHORE RD	138	1	-138.0	-636.0	-0.53462	-0.39475	-141.7	-509.5	
			C:129270 E.G.C.	138	129288 ROSLYN	138	1	1513						
			Open 129270 E.G.C.	138	129288 ROSLYN	138	1			0.39333	-0.35563	9.5	-321.7	
9153	940.9	3841.1	L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-110.7	-636.0	-0.55828	-0.41657	-137.8	-529.8	
			C:129265 CARLE PL	138	129270 E.G.C.	138	1	1510						
			Open 129265 CARLE PL	138	129270 E.G.C.	138	1			-0.40817	0.34717	-66.4	260.2	
9319	949.0	3849.1	L: 129265 CARLE PL	138	129270 E.G.C.	138	1	-66.4	263.0	0.34717				
			Base Case											
9339	951.9	3852.1	*L: 129282 GLNWD NO	138	129293 SHORE RD	138	1	-239.5	-636.0	-0.41657	-0.41657	-137.8	-534.4	
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			0.15393	0.00000	-660.2	-660.2	
9540	979.6	3879.7	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	48.1	235.0	0.19077				
			Base Case											
11267	993.1	3893.3	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	937.3	1399.0	0.46494	-0.00000	639.5	639.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.46494	1.00000	640.5	1633.6	
12651	995.3	3895.5	L: 126299 REACBUS	345	147857 DVNPT NK	345	1	936.2	1399.0	0.46494	-0.00000	639.5	639.5	
			C:BUS:SHORE_RD_345					1724						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.46494	0.50089	319.6	818.2	
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.46494	0.49911	318.5	815.3	
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.03050	0.00000	2.4	2.4	
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			0.03050	0.00000	-0.0	-0.0	
12927	999.4	3899.6	L: 128824 EGC DUM	345	128830 HMP HRBR	345	1	-934.3	-1399.0	-0.46494	0.00000	-636.5	-636.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.46494	1.00000	640.5	1639.9	
12928	999.4	3899.6	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	934.3	1399.0	0.46494	-0.00000	636.5	636.5	
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.46494	1.00000	640.5	1639.9	
12929	999.4	3899.6	L: 128824 EGC DUM	345	128825 EGC PAR	345	1	934.3	1399.0	0.46494	-0.00000	636.5	636.5	

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ID	Value 1	Value 2	Description	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10	Value 11	Value 12
13068	1038.6	3938.8	Base Case L: 129305 LCST GRV	138	129310	NEWBRGE	138	1	-218.1	-378.0	-0.15396		
13114	1098.3	3998.5	Base Case L: 137451 LEEDS 3	345	137452	N.SCOT77	345	1	-1413.3	-1724.0	-0.28291	-0.18212	-909.9 -1109.9
			C:137451 LEEDS 3	345	137453	N.SCOT99	345	2	1084				
			Open 137451 LEEDS 3	345	137453	N.SCOT99	345	2			0.55705	-0.18094	-903.6 -1102.4
13144	1115.0	4015.2	L: 137451 LEEDS 3	345	137453	N.SCOT99	345	2	-1409.4	-1724.0	-0.28216	-0.18094	-903.6 -1105.4
			C:137451 LEEDS 3	345	137452	N.SCOT77	345	1	1083				
			Open 137451 LEEDS 3	345	137452	N.SCOT77	345	1			0.55582	-0.18212	-909.9 -1113.0
13259	1162.6	4062.7	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	329.1	383.0	0.04635	0.03684	260.9 303.7
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.12040	-0.07897	-566.5 -658.3
13274	1163.6	4063.7	L: 129244 GRT NECK	138	129537	GRT NECK	69.0	2	79.0	118.0	0.03352		
			Base Case										
13275	1163.6	4063.7	L: 129244 GRT NECK	138	129537	GRT NECK	69.0	1	79.0	118.0	0.03352		
			Base Case										
13344	1167.0	4067.1	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	55.5	253.0	0.16927		
			Base Case										
16726	1185.1	4085.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	328.4	383.0	0.04606	0.03684	260.9 304.6
			C:SER:HCWC/NWES					1710					
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1			-0.00812	-0.01113	54.1 40.9
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.12066	-0.07897	-566.5 -660.1
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00914	-0.04397	-44.5 -96.6
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
20253	1198.7	4098.8	L: Interface 58 K-to-J						-417.4	-869.0	-0.37671	0.00000	-176.2 -176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455				
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			-0.37671	1.00000	640.5 1839.2
20254	1198.7	4098.8	L: Interface 57 J-to-K						417.4	869.0	0.37671	0.00000	176.2 176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455				
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			0.37671	1.00000	640.5 1839.2
20255	1198.7	4098.8	L: Interface 18 NYC-LIPA						417.4	869.0	0.37671	0.00000	176.2 176.2
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455				
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1			0.37671	1.00000	640.5 1839.2
20298	1201.0	4101.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	327.2	383.0	0.04644	0.03684	260.9 305.2
			C:SER:HC-WC_30&W-F_171					1704					
			Open 135277 FALCONER	115	200579	WARREN	115	1			0.04656	0.01210	-23.3 -8.8
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA				
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1			-0.11970	-0.07897	-566.5 -661.3
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA				
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1			0.00937	-0.04397	-44.5 -97.3
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA				
20299	1201.1	4101.3	L: Interface 55 I-to-K						1709.9	2911.0	1.00000	1.00000	1280.0 2481.0
			C:128842 NEPTCONV	345	128847	NWBRG	345	1	1489				
			Open 128842 NEPTCONV	345	128847	NWBRG	345	1			-0.65124	0.00000	-660.2 -660.2

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			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		-0.00982	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		-0.00982	0.00000	-0.0	-0.0		
20303	1201.1	4101.3	L: Interface 58 K-to-J							-416.5	-869.0	-0.37671	0.00000	-176.2	-176.2
			C:BUS:SHORE_RD_345					1724							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		-0.37671	0.50089	319.6	921.2		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		-0.37671	0.49911	318.5	918.0		
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.00982	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		0.00982	0.00000	-0.0	-0.0		
20402	1214.2	4114.3	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-326.7	-383.0	-0.04635	-0.03684	-258.5	-303.3
			C:130757 WATRC345	345	135249	ARMENMTN	345	1	278						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.12040	-0.07897	-566.5	-662.4		
20464	1237.0	4137.2	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-326.0	-383.0	-0.04606	-0.03684	-258.5	-304.1
			C:SER:HCWC/NWES					1710							
			Open 130836 N.WAV115	115	200676	E.SAYRE	115	1		0.00812	-0.01113	54.1	40.4		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.12066	-0.07897	-566.5	-664.2		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00914	-0.04397	-44.5	-98.9		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
22065	1252.5	4152.7	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1		-324.8	-383.0	-0.04644	-0.03684	-258.5	-304.7
			C:SER:HC-WC_30&W-F_171					1704							
			Open 135277 FALCONER	115	200579	WARREN	115	1		-0.04656	0.01210	-23.3	-8.2		
			Open 95593 CHERYFLT	345	135249	ARMENMTN	345	1	NA						
			Open 130757 WATRC345	345	135249	ARMENMTN	345	1		0.11970	-0.07897	-566.5	-665.4		
			Open 135248 ARMENMTN	345	135249	ARMENMTN	345	1	NA						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1		-0.00937	-0.04397	-44.5	-99.6		
			Open 95593 CHERYFLT	345	95594	CHERYWND	34.5	1	NA						
22247	1271.8	4172.0	L: 126298 SPRBROOK	345	126299	REACBUS	345	BY		938.7	1530.0	0.46494	-0.00000	640.9	640.9
			C:126266 DUNWODIE	345	128835	SHORE RD	345	1	1455						
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.46494	1.00000	640.5	1912.3		
22249	1274.0	4174.2	L: 126298 SPRBROOK	345	126299	REACBUS	345	BY		937.7	1530.0	0.46494	-0.00000	640.9	640.9
			C:BUS:SHORE_RD_345					1724							
			Open 128835 SHORE RD	345	129293	SHORE RD	138	1		0.46494	0.50089	319.6	957.8		
			Open 128835 SHORE RD	345	129293	SHORE RD	138	2		0.46494	0.49911	318.5	954.4		
			Open 126266 DUNWODIE	345	128835	SHORE RD	345	1		0.03050	0.00000	2.4	2.4		
			Open 150 DUNWD SW	345	126266	DUNWODIE	345	1		0.03050	0.00000	-0.0	-0.0		
22253	1276.5	4176.6	L: Interface 56 K-to-I							-1634.5	-2911.0	-1.00000	-1.00000	-1280.0	-2556.4
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1546						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1		-0.79373	0.00000	446.7	446.7		
22254	1276.5	4176.6	L: Interface 55 I-to-K							1634.5	2911.0	1.00000	1.00000	1280.0	2556.4
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1	1546						
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1		0.79373	0.00000	446.7	446.7		
22288	1352.7	4252.8	L: 129270 E.G.C.	138	129310	NEWBRGE	138	1		-1.2	491.0	0.36385	0.19077	48.1	306.2
			C:129270 E.G.C.	138	129271	E.G.C.-2	138	1	1512						
			Open 129270 E.G.C.	138	129271	E.G.C.-2	138	1		0.46237	0.37433	-106.6	399.7		
22289	1352.8	4252.9	L: 129339 KINGS HWY	138	129355	PILGRIM	138	1		-179.8	-497.0	-0.23449			

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			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1				-0.59284	0.00000	-334.2	-334.2
22302	1432.9	4333.1	L: Interface 56 K-to-I						-1478.1	-2911.0	-1.00000		-1.00000	-1280.0	-2712.9
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1	1494						
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1				0.59284	0.00000	-334.2	-334.2
22303	1443.0	4343.2	L: 130761 AVOCA230	230	131154	STONY RIDGE	230	1	323.8	383.0	0.04105		0.03684	260.9	314.1
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				-0.12040	-0.03500	-522.0	-572.5
22304	1462.6	4362.8	L: 129328 ELWOOD 1	138	129671	ELWOOD	69.0	1	111.8	165.0	0.03639		0.03024	89.9	134.1
			C:129333 GRENLAWN	138	129677	GRENLAWN	69.0	1	1634						
			Open 129333 GRENLAWN	138	129677	GRENLAWN	69.0	1				0.26844	0.02291	81.4	114.9
22305	1463.2	4363.3	L: 129234 VLY STRM	138	129271	E.G.C.-2	138	1	-116.9	-211.0	-0.06431				
			Base Case												
22306	1487.6	4387.8	L: Interface 14 DUNWOODIE-SO						4822.4	6310.0	1.00000				
			Base Case												
22307	1490.6	4390.8	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-604.9	-707.0	-0.06850		-0.03791	-457.5	-514.0
			C:SIN:440												
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.14038	0.21789	1050.1	1374.9
22308	1490.6	4390.8	L: 146771 SHOEM138	138	146772	SHOEMTAP	138	1	-604.9	-707.0	-0.06850		-0.03791	-457.5	-514.0
			C:125001 ROCK TAV	345	126297	RAMAPO	345	1	69						
			Open 125001 ROCK TAV	345	126297	RAMAPO	345	1				-0.14038	0.21789	1050.1	1374.9
22309	1501.3	4401.4	L: 130763 HILSD230	230	131154	STONY RIDGE	230	1	-321.4	-383.0	-0.04105		-0.03684	-258.5	-313.8
			C: 95593 CHERYFLT	345	200769	HOMER CY	345	1	1448						
			Open 95593 CHERYFLT	345	200769	HOMER CY	345	1				0.12040	-0.03500	-522.0	-574.5
22310	1502.8	4402.9	L: Interface 55 I-to-K						1408.2	2911.0	1.00000		1.00000	1280.0	2782.7
			C:SIN:250												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22311	1502.8	4402.9	L: Interface 56 K-to-I						-1408.2	-2911.0	-1.00000		-1.00000	-1280.0	-2782.7
			C:SIN:250												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22312	1505.2	4405.4	L: Interface 55 I-to-K						1405.8	2911.0	1.00000		1.00000	1280.0	2785.2
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				-0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22313	1505.2	4405.4	L: Interface 56 K-to-I						-1405.8	-2911.0	-1.00000		-1.00000	-1280.0	-2785.2
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22314	1505.2	4405.4	L: Interface 56 K-to-I						-1405.8	-2911.0	-1.00000		-1.00000	-1280.0	-2785.2
			C:GEN:MLS3&OMS												
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2				0.00002	0.00000	-0.0	-0.0
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22315	1505.2	4405.4	L: Interface 55 I-to-K						1405.8	2911.0	1.00000		1.00000	1280.0	2785.2
			C:GEN:MILLST 3												
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW dispatch									
22316	1506.2	4406.4	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	11.7	498.0	0.32284		0.16927	55.5	310.4
			C:129270 E.G.C.	138	129310	NEWBRGE	138	3	1510						

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			Open 129024 NRTPTG1	22.0	129346 NRTHPT3	138	1				-0.55857	0.05776	-283.5	-195.6
22321	1524.8	4424.9	L: Interface 55 I-to-K					1429.7	2911.0	0.97149	1.00000	1280.0	2804.7	
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				-0.59147	0.04821	-253.2	-179.7
22322	1524.8	4424.9	L: Interface 56 K-to-I					-1429.7	-2911.0	-0.97149	-1.00000	-1280.0	-2804.7	
			C:129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342 NRTHPRT2	138	1				0.59147	0.04821	-253.2	-179.7
22325	1530.8	4431.0	*L: Interface 56 K-to-I					-1421.4	-2911.0	-0.97307	-1.00000	-1280.0	-2810.7	
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1607						
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				0.55855	0.04821	-253.3	-179.5
22326	1530.8	4431.0	*L: Interface 55 I-to-K					1421.4	2911.0	0.97307	1.00000	1280.0	2810.7	
			C:129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1	1607						
			Open 129025 NRTPTG2	22.0	129341 NRTHPRT1	138	1				-0.55855	0.04821	-253.3	-179.5
22327	1530.9	4431.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	100.1	165.0	0.04239	0.03352	79.0	130.3	
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.13958	0.06354	151.2	248.5
22328	1530.9	4431.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	100.1	165.0	0.04239	0.03352	79.0	130.3	
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1	1624						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	1				0.13958	0.06354	151.2	248.5
22333	1547.7	4447.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	89.9	339.0	0.16098	0.12323	68.8	259.5	
			C:129310 NEWBRGE	138	129361 RULND RD	138	2	1529						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	2				0.30627	0.12323	68.8	259.5
22334	1547.7	4447.9	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	89.9	339.0	0.16098	0.12323	68.8	259.5	
			C:129310 NEWBRGE	138	129361 RULND RD	138	1	1528						
			Open 129310 NEWBRGE	138	129361 RULND RD	138	1				0.30627	0.12323	68.8	259.5
22335	1548.8	4449.0	L: Interface 17 I-TO-J+K					4821.2	6370.0	1.00000				
			Base Case											
22347	1565.3	4465.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	105.5	339.0	0.14916	0.12323	68.8	261.7	
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1525						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1				-0.16841	-0.15396	-218.1	-459.1
22348	1565.3	4465.5	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	105.5	339.0	0.14916	0.12323	68.8	261.7	
			C:129305 LCST GRV	138	129310 NEWBRGE	138	1	1525						
			Open 129305 LCST GRV	138	129310 NEWBRGE	138	1				-0.16841	-0.15396	-218.1	-459.1
22349	1576.0	4476.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	68.8	263.0	0.12323				
			Base Case											
22350	1576.0	4476.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	68.8	263.0	0.12323				
			Base Case											
22351	1576.4	4476.6	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-266.3	-636.0	-0.23449	-0.23449	-179.8	-549.5	
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				0.25896	0.00000	-334.2	-334.2
22352	1577.9	4478.1	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	266.0	636.0	0.23449	0.23449	179.5	549.5	
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1	1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1				-0.25896	0.00000	-334.2	-334.2
22357	1579.1	4479.3	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-265.7	-636.0	-0.23449	-0.23449	-179.8	-550.1	
			C:129361 RULND RD	138	129362 RUL PAR	138	1	1555						
			Open 129361 RULND RD	138	129362 RUL PAR	138	1				-0.46421	0.00000	185.1	185.1
22358	1579.5	4479.6	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-265.7	-636.0	-0.23449	-0.23449	-179.8	-550.1	



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			C:129310 NEWBRGE	138	129361 RULND RD	138	3	1530											
			Open 129310 NEWBRGE		138 129361 RULND RD		138	3				0.29963	0.11431	65.8	247.6				
22399	1592.8	4492.9	L: 130761 AVOCA230	230	131154 STONY RIDGE	230	1		327.9	383.0	0.03459		0.03684	260.9	319.6				
			C:BUS:WATERCURE_345					1735											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					-0.04950	-0.07897	-566.5	-692.3				
			Open 130757 WATRC345	345	130768 WATRC230	230	1					0.15696	-0.03923	248.2	185.7				
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					-0.04119	0.00000	0.0	0.0				
22406	1594.9	4495.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.6	165.0	0.05042		0.03352	79.0	132.5				
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1					-0.04056	-0.41657	-137.8	-802.2				
22407	1594.9	4495.1	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		84.6	165.0	0.05042		0.03352	79.0	132.5				
			C:129282 GLNWD NO	138	129293 SHORE RD	138	1	1521											
			Open 129282 GLNWD NO	138	129293 SHORE RD	138	1					-0.04056	-0.41657	-137.8	-802.2				
22430	1615.6	4515.8	L: 146758 CHESTER	138	146773 SGRLF138	138	1		231.2	317.0	0.05309		0.02945	117.3	164.9				
			C:125001 ROCK TAV	345	126297 RAMAPO	345	1	69											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					0.10850	0.21789	1050.1	1402.2				
22431	1615.6	4515.8	L: 146758 CHESTER	138	146773 SGRLF138	138	1		231.2	317.0	0.05309		0.02945	117.3	164.9				
			C:SIN:440					1786											
			Open 125001 ROCK TAV	345	126297 RAMAPO	345	1					0.10850	0.21789	1050.1	1402.2				
22455	1623.1	4523.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		97.8	165.0	0.04141		0.03352	79.0	133.4				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1625											
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2					0.13588	0.05810	138.2	232.5				
22456	1623.1	4523.2	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		97.8	165.0	0.04141		0.03352	79.0	133.4				
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	2	1625											
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2					0.13588	0.05810	138.2	232.5				
25884	1643.4	4543.6	L: 130750 COOPC345	345	130753 FRASR345	345	1		-929.3	-1207.0	-0.16899								
			Base Case																
25914	1649.5	4549.6	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1		84.5	165.0	0.04881		0.03352	79.0	134.3				
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1522											
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1					-0.03874	-0.39475	-141.7	-792.9				
25915	1649.5	4549.6	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2		84.5	165.0	0.04881		0.03352	79.0	134.3				
			C:129283 GLNWD SO	138	129293 SHORE RD	138	1	1522											
			Open 129283 GLNWD SO	138	129293 SHORE RD	138	1					-0.03874	-0.39475	-141.7	-792.9				
25952	1660.3	4560.5	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1		174.3	491.0	0.19077		0.19077	48.1	364.9				
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1					-0.19105	0.00000	-660.2	-660.2				
25953	1661.9	4562.1	L: 130763 HILSD230	230	131154 STONY RIDGE	230	1		-325.5	-383.0	-0.03459		-0.03684	-258.5	-319.7				
			C:BUS:WATERCURE_345					1735											
			Open 130757 WATRC345	345	135249 ARMENMTN	345	1					0.04950	-0.07897	-566.5	-697.7				
			Open 130757 WATRC345	345	130768 WATRC230	230	1					-0.15696	-0.03923	248.2	183.0				
			Open 130755 OAKDL345	345	130757 WATRC345	345	1					0.04119	0.00000	0.0	0.0				
25954	1663.3	4563.4	L: Interface 15 I-to-K						1708.7	3372.0	1.00000		1.00000	1278.8	2942.0				
			C:128842 NEPTCONV	345	128847 NWBRG	345	1	1489											
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1					-0.65124	0.00000	-660.2	-660.2				
25955	1664.6	4564.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2		133.9	339.0	0.12323		0.12323	68.8	273.9				
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1	1546											
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1					0.14568	0.00000	446.7	446.7				

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25980	1673.6	4573.8	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	243.6	636.0	0.23449	0.23449	179.5	571.9
			C:129355 PILGRIM	138	129356 PILGRM P	138	1551						
			Open 129355 PILGRIM	138	129356 PILGRM P	138	1			0.38870	0.00000	164.9	164.9
25981	1674.6	4574.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	89.2	339.0	0.14916	0.12323	68.8	275.2
			C:129305 LCST GRV	138	129315 SYOSSET	138	1526						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1			0.16841	0.15396	121.3	379.1
25982	1674.6	4574.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	89.2	339.0	0.14916	0.12323	68.8	275.2
			C:129305 LCST GRV	138	129315 SYOSSET	138	1526						
			Open 129305 LCST GRV	138	129315 SYOSSET	138	1			0.16841	0.15396	121.3	379.1
26011	1690.9	4591.0	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	64.3	491.0	0.25234	0.19077	48.1	370.7
			C:129271 E.G.C.-2	138	129310 NEWBRGE	138	1516						
			Open 129271 E.G.C.-2	138	129310 NEWBRGE	138	2			0.33622	0.18310	48.2	357.8
26036	1712.6	4612.8	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	66.8	491.0	0.24770	0.19077	48.1	374.8
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1515						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3			0.33633	0.16927	55.5	345.4
26039	1725.5	4625.7	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	64.4	491.0	0.24723	0.18310	48.2	364.2
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1514						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	1			0.33615	0.19077	48.1	377.3
26040	1729.9	4630.0	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	1	194.0	335.0	0.08151	0.06354	151.2	261.1
			C:129248 L SUCS	138	129543 LKE SCSS	69.0	1625						
			Open 129248 L SUCS	138	129543 LKE SCSS	69.0	2			0.30935	0.05810	138.2	238.7
26049	1734.3	4634.4	L: 129248 L SUCS	138	129543 LKE SCSS	69.0	2	138.2	239.0	0.05810			
			Base Case										
26050	1736.8	4637.0	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	173.0	491.0	0.18310	0.18310	48.2	366.2
			C:128842 NEPTCONV	345	128847 NWBRG	345	1489						
			Open 128842 NEPTCONV	345	128847 NWBRG	345	1			-0.18897	0.00000	-660.2	-660.2
26051	1738.6	4638.8	L: Interface 15 I-to-K					1633.4	3372.0	1.00000	1.00000	1278.8	3017.4
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1546						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.79373	0.00000	446.7	446.7
26052	1748.4	4648.5	L: 129305 LCST GRV	138	129310 NEWBRGE	138	1	-328.8	-598.0	-0.15396	-0.15396	-218.1	-487.3
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1546						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			-0.24787	0.00000	446.7	446.7
26053	1779.9	4680.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	119.7	339.0	0.12323	0.12323	68.8	288.1
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.15220	0.00000	-334.2	-334.2
26054	1779.9	4680.1	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	119.7	339.0	0.12323	0.12323	68.8	288.1
			C:128880 SHMHVDCL	192	129459 SHOREHAM	138	1494						
			Open 128880 SHMHVDCL	192	129459 SHOREHAM	138	1			-0.15220	0.00000	-334.2	-334.2
26055	1786.2	4686.4	L: 129271 E.G.C.-2	138	129310 NEWBRGE	138	2	66.2	491.0	0.23785	0.18310	48.2	375.3
			C:129270 E.G.C.	138	129310 NEWBRGE	138	1515						
			Open 129270 E.G.C.	138	129310 NEWBRGE	138	3			0.32341	0.16927	55.5	357.8
26056	1796.1	4696.3	L: 129355 PILGRIM	138	129686 PILGRM	69.0	1	274.8	335.0	0.03350	0.02276	186.8	227.7
			C:129355 PILGRIM	138	129686 PILGRM	69.0	1636						
			Open 129355 PILGRIM	138	129686 PILGRM	69.0	2			0.49968	0.02149	176.2	214.7
26057	1801.8	4702.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-213.5	-636.0	-0.23449	-0.23449	-179.8	-602.3
			C:129337 HAUPAGUE	138	129393 C.ISLIP	138	1540						
			Open 129337 HAUPAGUE	138	129393 C.ISLIP	138	1			0.38870	0.00000	164.9	164.9

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26065	1809.9	4710.1	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	187.9	636.0	0.24761	0.23449	179.5	603.8
			C:126266 DUNWODIE	345	128835 SHORE RD	345	1 1455						
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			0.01312	1.00000	640.5	2450.4
26066	1810.0	4710.2	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	187.8	636.0	0.24761	0.23449	179.5	603.9
			C:BUS:SHORE_RD_345				1724						
			Open 128835 SHORE RD	345	129293 SHORE RD	138	1			0.01312	0.50089	319.6	1226.3
			Open 128835 SHORE RD	345	129293 SHORE RD	138	2			0.01312	0.49911	318.5	1221.9
			Open 126266 DUNWODIE	345	128835 SHORE RD	345	1			-0.00168	0.00000	2.4	2.4
			Open 150 DUNWD SW	345	126266 DUNWODIE	345	1			-0.00168	0.00000	-0.0	-0.0
26067	1814.5	4714.7	L: 129270 E.G.C.	138	129310 NEWBRGE	138	1	144.8	491.0	0.19077	0.19077	48.1	394.3
			C:129343 NRTHPT P	138	129344 NRTHPT1	138	1 1546						
			Open 129343 NRTHPT P	138	129344 NRTHPT1	138	1			0.21650	0.00000	446.7	446.7
26068	1816.6	4716.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.6	339.0	0.15272	0.12323	68.8	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1 1527						
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1			0.17890	0.16480	-40.4	259.0
26069	1816.6	4716.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.6	339.0	0.15272	0.12323	68.8	292.7
			C:129310 NEWBRGE	138	129324 BETHPAGE	138	1 1527						
			Open 129310 NEWBRGE	138	129324 BETHPAGE	138	1			0.17890	0.16480	-40.4	259.0
26070	1816.7	4716.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	61.6	339.0	0.15272	0.12323	68.8	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1 1533						
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1			-0.17890	-0.16480	40.4	-259.0
26071	1816.7	4716.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	61.6	339.0	0.15272	0.12323	68.8	292.7
			C:129321 BAGATELLE	138	129324 BETHPAGE	138	1 1533						
			Open 129321 BAGATELLE	138	129324 BETHPAGE	138	1			-0.17890	-0.16480	40.4	-259.0
26072	1820.5	4720.7	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	2	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	1 1622						
			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	1			0.17839	0.03352	79.0	140.0
26073	1820.5	4720.7	L: 129244 GRT NECK	138	129537 GRT NECK	69.0	1	93.1	165.0	0.03950	0.03352	79.0	140.0
			C:129244 GRT NECK	138	129537 GRT NECK	69.0	2 1623						
			Open 129244 GRT NECK	138	129537 GRT NECK	69.0	2			0.17839	0.03352	79.0	140.0
26074	1837.8	4738.0	L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-225.9	-636.0	-0.22312	-0.23449	-179.8	-610.7
			C:129092 PTJEFG3	20.0	129448 PT JEFF1	138	1 1614						
			Open 129092 PTJEFG3	20.0	129448 PT JEFF1	138	1			0.24865	0.04569	-185.6	-101.6
26075	1839.4	4739.5	L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.6	636.0	0.22312	0.23449	179.5	610.8
			C:129092 PTJEFG3	20.0	129448 PT JEFF1	138	1 1614						
			Open 129092 PTJEFG3	20.0	129448 PT JEFF1	138	1			-0.24865	0.04569	-185.6	-101.5
26076	1839.4	4739.6	*L: 129339 KINGS HWY	138	129355 PILGRIM	138	1	-225.3	-636.0	-0.22328	-0.23449	-179.8	-611.1
			C:129093 PTJEFG4	20.0	129449 PT JEFF2	138	1 1615						
			Open 129093 PTJEFG4	20.0	129449 PT JEFF2	138	1			0.24866	0.04507	-183.0	-100.1
26077	1840.9	4741.1	*L: 129339 KINGS HWY	138	129427 HOLTS GT	138	1	225.0	636.0	0.22328	0.23449	179.5	611.1
			C:129093 PTJEFG4	20.0	129449 PT JEFF2	138	1 1615						
			Open 129093 PTJEFG4	20.0	129449 PT JEFF2	138	1			-0.24866	0.04507	-183.0	-100.0
26078	1843.7	4743.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	2	57.4	339.0	0.15272	0.12323	68.8	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1 1534						
			Open 129321 BAGATELLE	138	129355 PILGRIM	138	1			0.17890	0.16480	-63.4	240.4
26079	1843.7	4743.8	L: 129310 NEWBRGE	138	129361 RULND RD	138	1	57.4	339.0	0.15272	0.12323	68.8	296.0
			C:129321 BAGATELLE	138	129355 PILGRIM	138	1 1534						

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			Open 129282 GLNWD NO	138	129293	SHORE RD	138	1				-0.07040	-0.41657	-137.8	-918.7	
26104	1892.2	4792.4	*L: 129310 NEWBRGE	138	129361	RULND RD	138	1	79.5	339.0	0.13716		0.12323	68.8	302.0	
			C:129339 KINGS HWY	138	129355	PILGRIM	138	1								
			Open 129339 KINGS HWY	138	129355	PILGRIM	138	1								
26105	1892.2	4792.4	*L: 129310 NEWBRGE	138	129361	RULND RD	138	2	79.5	339.0	0.13716		0.12323	68.8	302.0	
			C:129339 KINGS HWY	138	129355	PILGRIM	138	1								
			Open 129339 KINGS HWY	138	129355	PILGRIM	138	1								
26110	1894.7	4794.9	L: 129248 L SUCS	138	129543	LKE SCSS	69.0	1	161.3	335.0	0.09166		0.06354	151.2	271.6	
			C:129283 GLNWD SO	138	129293	SHORE RD	138	1								
			Open 129283 GLNWD SO	138	129293	SHORE RD	138	1								
26111	1895.1	4795.3	L: Interface 15 I-to-K						1476.9	3372.0	1.00000		1.00000	1278.8	3173.9	
			C:128880 SHMHVDCL	192	129459	SHOREHAM	138	1								
			Open 128880 SHMHVDCL	192	129459	SHOREHAM	138	1								
26112	1896.2	4796.3	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	143.8	491.0	0.18310		0.18310	48.2	395.4	
			C:129343 NRTHPT P	138	129344	NRTHPT1	138	1								
			Open 129343 NRTHPT P	138	129344	NRTHPT1	138	1								
26125	1903.5	4803.7	L: 129328 ELWOOD 1	138	129671	ELWOOD	69.0	1	104.1	165.0	0.03197		0.03024	89.9	147.5	
			C:129355 PILGRIM	138	129686	PILGRM	69.0	2								
			Open 129355 PILGRIM	138	129686	PILGRM	69.0	2								
26132	1906.3	4806.4	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	4	46.0	288.0	0.12692		0.08074	0.02149	176.2	217.1
			Base Case													
26141	1912.3	4812.5	L: 129270 E.G.C.	138	129310	NEWBRGE	138	3	69.9	498.0	0.22389		0.16927	55.5	379.2	
			C:129271 E.G.C.-2	138	129310	NEWBRGE	138	2								
			Open 129271 E.G.C.-2	138	129310	NEWBRGE	138	2								
26142	1915.8	4816.0	L: 129333 GRENLAWN	138	129677	GRENLAWN	69.0	1	105.0	164.0	0.03082		0.02291	81.4	125.3	
			C:129328 ELWOOD 1	138	129671	ELWOOD	69.0	1								
			Open 129328 ELWOOD 1	138	129671	ELWOOD	69.0	1								
26145	1918.0	4818.2	L: 129310 NEWBRGE	138	129361	RULND RD	138	3	65.8	285.0	0.11431		0.26159	0.03024	89.9	147.8
			Base Case													
26146	1918.6	4818.8	L: 129271 E.G.C.-2	138	129310	NEWBRGE	138	2	62.8	491.0	0.22320		0.18310	48.2	399.5	
			C:129271 E.G.C.-2	138	129310	NEWBRGE	138	4								
			Open 129271 E.G.C.-2	138	129310	NEWBRGE	138	4								
26375	1944.5	4844.6	L: 146758 CHESTER	138	146771	SHOEM138	138	1	-222.2	-317.0	-0.04877		-0.02945	-157.6	-214.9	
			C:125001 ROCK TAV	345	146754	MDTN TAP	345	1								
			Open 125001 ROCK TAV	345	146754	MDTN TAP	345	1								
26602	1965.0	4865.1	L: Interface 15 I-to-K						1407.0	3372.0	1.00000		1.00000	1278.8	3243.7	
			C:SIN:250													
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2								
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW										
26603	1967.4	4867.6	L: Interface 15 I-to-K						1404.6	3372.0	1.00000		1.00000	1278.8	3246.2	
			C:GEN:MILLST 3													
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW										
26604	1967.4	4867.6	L: Interface 15 I-to-K						1404.6	3372.0	1.00000		1.00000	1278.8	3246.2	
			C:GEN:MLS3&OMS													
			Open 100508 SANDB115	115	100509	SB RCTOR	115	2								
			Remove unit 3 from bus 103563 MILL#3	24.0	1284.7	MW										
26605	1967.7	4867.8	L: Interface 15 I-to-K						1404.6	3372.0	1.00000		1.00000	1278.8	3246.2	

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27394	2229.6	5129.8	L: Interface	20	LI	SUM				2011.4	4241.0	1.00000		1.00000	1454.9	3684.6
			C:128842	NEPTCONV	345	128847	NWBRG	345	1	1489						
			Open	128842	NEPTCONV	345	128847	NWBRG	345	1			-0.84281	0.00000	-660.2	-660.2
27397	2339.3	5239.5	L: Interface	20	LI	SUM				1901.7	4241.0	1.00000		1.00000	1454.9	3794.3
			C:129343	NRTHPT P	138	129344	NRTHPT1	138	1	1546						
			Open	129343	NRTHPT P	138	129344	NRTHPT1	138	1			1.00000	0.00000	446.7	446.7
27401	2404.0	5304.2	L: Interface	78	LIPA	Export				-3184.8	-5450.0	-0.94224		-1.00000	-2901.3	-5305.4
			C:129024	NRTPTG1	22.0	129346	NRTHPT3	138	1	1606						
			Open	129024	NRTPTG1	22.0	129346	NRTHPT3	138	1			1.00000	0.05776	-283.5	-144.6
27402	2404.1	5304.2	L: Interface	78	LIPA	Export				-3184.8	-5450.0	-0.94224		-1.00000	-2901.3	-5305.4
			C:129026	NRTPTG3	22.0	129342	NRTHPT2	138	1	1608						
			Open	129026	NRTPTG3	22.0	129342	NRTHPT2	138	1			1.00000	0.05776	-283.5	-144.6
27403	2411.6	5311.8	L: Interface	78	LIPA	Export				-3154.6	-5450.0	-0.95179		-1.00000	-2901.3	-5313.0
			C:129025	NRTPTG2	22.0	129341	NRTHPT1	138	1	1607						
			Open	129025	NRTPTG2	22.0	129341	NRTHPT1	138	1			1.00000	0.04821	-253.3	-137.0
27404	2411.7	5311.9	L: Interface	78	LIPA	Export				-3154.5	-5450.0	-0.95179		-1.00000	-2901.3	-5313.1
			C:129027	NRTPTG4	22.0	129342	NRTHPT2	138	1	1609						
			Open	129027	NRTPTG4	22.0	129342	NRTHPT2	138	1			1.00000	0.04821	-253.2	-136.9
27405	2476.2	5376.4	L: Interface	78	LIPA	Export				-3086.9	-5450.0	-0.95431		-1.00000	-2901.3	-5377.6
			C:129092	PTJEFG3	20.0	129448	PT JEFF1	138	1	1614						
			Open	129092	PTJEFG3	20.0	129448	PT JEFF1	138	1			1.00000	0.04569	-185.6	-72.4
27406	2476.7	5376.9	L: Interface	78	LIPA	Export				-3084.9	-5450.0	-0.95493		-1.00000	-2901.3	-5378.0
			C:128900	BARETG1	20.0	129202	BARRETT1	138	1	1600						
			Open	128900	BARETG1	20.0	129202	BARRETT1	138	1			1.00000	0.04507	-183.6	-72.0
27407	2477.3	5377.5	L: Interface	78	LIPA	Export				-3084.4	-5450.0	-0.95493		-1.00000	-2901.3	-5378.6
			C:129093	PTJEFG4	20.0	129449	PT JEFF2	138	1	1615						
			Open	129093	PTJEFG4	20.0	129449	PT JEFF2	138	1			1.00000	0.04507	-183.0	-71.4
27408	2477.4	5377.6	L: Interface	78	LIPA	Export				-3084.3	-5450.0	-0.95493		-1.00000	-2901.3	-5378.8
			C:128901	BARETG2	20.0	129203	BARRETT2	138	1	1601						
			Open	128901	BARETG2	20.0	129203	BARRETT2	138	1			1.00000	0.04507	-182.9	-71.2
27409	2514.2	5414.4	L: Interface	78	LIPA	Export				-3064.8	-5450.0	-0.94871		-1.00000	-2901.3	-5415.5
			C:121102	STARS-01102	13.8	129361	RULND RD	138	02	1596						
			Open	121102	STARS-01102	13.8	129361	RULND RD	138	02			1.00000	0.05129	-163.4	-34.5
27410	2514.2	5414.4	*L: Interface	78	LIPA	Export				-3064.8	-5450.0	-0.94871		-1.00000	-2901.3	-5415.5
			C:121101	STARS-01101	13.8	129361	RULND RD	138	01	1595						
			Open	121101	STARS-01101	13.8	129361	RULND RD	138	01			1.00000	0.05129	-163.4	-34.5
27416	2528.6	5428.7	L: Interface	20	LI	SUM				1712.4	4241.0	1.00000		1.00000	1454.9	3983.5
			C:128880	SHMHVDCL	192	129459	SHOREHAM	138	1	1494						
			Open	128880	SHMHVDCL	192	129459	SHOREHAM	138	1			-0.77039	0.00000	-334.2	-334.2
28204	2596.7	5496.9	L: Interface	20	LI	SUM				1644.3	4241.0	1.00000		1.00000	1454.9	4051.6
			C:SIN:250							1780						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00003	0.00000	-0.0	-0.0
			Remove unit 3	from bus	103563	MILL#3		24.0	1284.7	MW	dispatch					
28205	2601.6	5501.8	L: Interface	20	LI	SUM				1639.4	4241.0	1.00000		1.00000	1454.9	4056.6
			C:GEN:MLS3&OMS							1676						
			Open	100508	SANDB115	115	100509	SB RCTOR	115	2			-0.00003	0.00000	-0.0	-0.0
			Remove unit 3	from bus	103563	MILL#3		24.0	1284.7	MW	dispatch					

## LIPA\_Import

			Open 129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1				-0.76841	0.05776	-283.5	-128.2
28210	2691.2	5591.4	*L: Interface 20 LI SUM						1649.5	4241.0	0.96296		1.00000	1454.9	4146.1
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1				-0.76841	0.04821	-253.2	-123.4
28992	2894.5	5794.7	L: Interface 19 LIPA IMPORT						3183.7	5911.0	0.94224		1.00000	2900.2	5794.7
			C:129024 NRTPTG1	22.0	129346	NRTHPT3	138	1	1606						
			Open 129024 NRTPTG1	22.0	129346	NRTHPT3	138	1				-1.00000	0.05776	-283.5	-116.3
28993	2894.6	5794.7	L: Interface 19 LIPA IMPORT						3183.6	5911.0	0.94224		1.00000	2900.2	5794.7
			C:129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1	1608						
			Open 129026 NRTPTG3	22.0	129342	NRTHPRT2	138	1				-1.00000	0.05776	-283.5	-116.3
28994	2897.2	5797.4	L: Interface 19 LIPA IMPORT						3153.4	5911.0	0.95179		1.00000	2900.2	5797.4
			C:129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1	1607						
			Open 129025 NRTPTG2	22.0	129341	NRTHPRT1	138	1				-1.00000	0.04821	-253.3	-113.6
28995	2897.3	5797.5	L: Interface 19 LIPA IMPORT						3153.3	5911.0	0.95179		1.00000	2900.2	5797.5
			C:129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1	1609						
			Open 129027 NRTPTG4	22.0	129342	NRTHPRT2	138	1				-1.00000	0.04821	-253.2	-113.5
29001	2960.5	5860.7	L: Interface 19 LIPA IMPORT						3085.7	5911.0	0.95431		1.00000	2900.2	5860.7
			C:129092 PTJEFG3	20.0	129448	PT JEFF1	138	1	1614						
			Open 129092 PTJEFG3	20.0	129448	PT JEFF1	138	1				-1.00000	0.04569	-185.6	-50.3
29002	2960.7	5860.8	L: Interface 19 LIPA IMPORT						3083.8	5911.0	0.95493		1.00000	2900.2	5860.8
			C:128900 BARETG1	20.0	129202	BARRETT1	138	1	1600						
			Open 128900 BARETG1	20.0	129202	BARRETT1	138	1				-1.00000	0.04507	-183.6	-50.2
29003	2961.3	5861.5	L: Interface 19 LIPA IMPORT						3083.2	5911.0	0.95493		1.00000	2900.2	5861.5
			C:129093 PTJEFG4	20.0	129449	PT JEFF2	138	1	1615						
			Open 129093 PTJEFG4	20.0	129449	PT JEFF2	138	1				-1.00000	0.04507	-183.0	-49.5
29004	2961.4	5861.6	L: Interface 19 LIPA IMPORT						3083.1	5911.0	0.95493		1.00000	2900.2	5861.6
			C:128901 BARETG2	20.0	129203	BARRETT2	138	1	1601						
			Open 128901 BARETG2	20.0	129203	BARRETT2	138	1				-1.00000	0.04507	-182.9	-49.4
29005	2999.6	5899.8	L: Interface 19 LIPA IMPORT						2930.6	5911.0	0.99359		1.00000	2900.2	5899.8
			C:128902 BRT G1-8	13.8	129202	BARRETT1	138	1	1602						
			Open 128902 BRT G1-8	13.8	129202	BARRETT1	138	1				-1.00000	0.00641	-30.4	-11.2

# **Attachment #13**

**MW Impact Calculations**

# MW Project Impact Calculation for Base Transmission Plan Project (STARS Phase II)

## 1. LOLE Calculation for BTP Case

The Base Transmission Plan database was built based on original Replacement Transmission Plan (RTP) GridView database with following updates:

- Added BTP transmission facilities
- Added HTP project
- Updated emergency transfer limits (based on report "Calculation of Transfer Limits for Horizon Year with Base Transmission Plan Projects")
- Generic conventional generation units' connection points were adjusted to match NYISO economical database
- Added 6,000 MW of wind generation as in NYISO economical database

The LOLE for BTP case is 0.07 days/year. As expected it is below LOLE of 0.08 days/yr for RTP case.

## 2. MW Excess Calculation

### 2.a. Calculation Based on Zonal Peak Loads

In order to determine the MW capacity impact of the BTP project(s), new generation capacity will be reduced, proportionally to the peak load in all zones, and LOLE will be recalculated. Because LOLE varies in a non-linear fashion with the generation capacity (or load), this LOLE calculation is an iterative process involving either removal or addition of generation capacity until the NYCA's LOLE of 0.08 days/year (as in original RTP case) is reached. Then, the amount of capacity that was backed off will be the "MW Project Impact".

After several iterations, with 350 MW new generation capacity reduction, the NYCA LOLE reaches 0.08 days/yr as shown in Table 1. The New generation capacity before and after reduction are shown in Table 2. So the MW capacity impact of the BTP projects is 350 MW.



Table 1. Calculated LOLE for BTP cases With and Without Generation Reduction, Based on Zonal Peak Load Proportion

Zones	Horizon Year LOLE (days/year)	
	Base Transmission Plan Case	BTP Case with Reduced New Generation
A	-	-
B	0.02	0.03
C	-	-
D	-	-
E	0.04	0.06
F	0.00	0.00
G	0.07	0.07
H	-	-
I	0.06	0.07
J	0.06	0.07
K	0.07	0.08
<b>NYCA</b>	0.07	0.08

Table 2. New Generation Capacity for BTP Cases Based on Zonal Peak Load Proportion

Zone	Load (MW)	New thermal generation (MW)	
		Base Transmission Plan (BTP) case	BTP case with generation reduction
ZONE-A	3,123	187	160
ZONE-B	2,365	187	167
ZONE-C	3,323	374	346
ZONE-D	971		-
ZONE-E	1,600	187	165
ZONE-F	2,868	187	162
ZONE-G	2,948	187	162
ZONE-H	782		-
ZONE-I	1,753	56	34
ZONE-J	14,326	1,122	999
ZONE-K	6,757	561	503
<b>Total</b>	<b>40,816</b>	<b>3,048</b>	<b>2,698</b>

**2.b. Calculation Based on Zonal UCAP**

Instead of reducing generation based on zonal peak loads as in the above method, the zonal generation unforced capacity (UCAP) was used as a basis for the generation reductions. In other words, new generation capacity in each zone was reduced in proportion to the unforced generation capacity (UCAP) and LOLE was recalculated. See Table 4. Because LOLE varies in a non-linear fashion with the generation capacity (or load), this LOLE calculation is an iterative process involving reduction of generation capacity until the NYCA's LOLE of 0.08 days/year (as in original RTP case) is reached. Then, the amount of capacity that was backed off will be the "MW Excess".

After several iterations, with 400 MW new generation capacity reduction, the NYCA LOLE reaches 0.08 days/yr as shown in Table 3. The new generation capacity reduction are shown in Table 4. So the MW capacity impact of the BTP projects is 400 MW.

Table 3. Calculated LOLE for BTP Cases With and Without Generation Reduction Based on Zonal UCAP Proportion

Zones	Horizon Year LOLE (days/year)	
	Base Transmission Plan Case	BTP Case with Reduced New Generation
A	-	-
B	0.02	0.02
C	-	-
D	-	-
E	0.04	0.05
F	0.00	0.00
G	0.07	0.07
H	-	-
I	0.06	0.07
J	0.06	0.07
K	0.07	0.08
<b>NYCA</b>	0.07	0.08

Table 4. New Generation Capacity in BTP Case Based on Zonal UCAP Proportion  
(from NYISO)

<b>Zone</b>	<b>UCAP Using 2011 Translation Factors (MW)</b>	<b>MW Reduction</b>
ZONE-A	4,743	<b>48</b>
ZONE-B	866	<b>9</b>
ZONE-C	6,421	<b>65</b>
ZONE-D	1,679	-
ZONE-E	972	<b>27</b>
ZONE-F	3,679	<b>37</b>
ZONE-G	2,813	<b>28</b>
ZONE-H	2,227	-
ZONE-I	93	<b>23</b>
ZONE-J	9,758	<b>98</b>
ZONE-K	6,425	<b>65</b>
<b>Total</b>	<b>39,676</b>	<b>400</b>

# MW Excess Calculation for Base Transmission Plan Trial 9 Case (STARS Phase II)

## 1. LOLE Calculation for Base Transmission Plan T9 Case

The Trial 9 case includes the following BTP facilities:

- Leeds-Pleasant Valley 345kV line #3
- National Grid 115kV transmission upgrades

The LOLE for Trial 9 case is 0.074 days/year.

## 2. MW Project Impact Calculation

In order to determine the MW capacity impact of the Trial 9 projects, new generation capacity was reduced and LOLE recalculated. Zonal generation unforced capacity (UCAP) was used as a basis for the generation reductions. In other words, new generation capacity in each zone was reduced in proportion to the unforced generation capacity (UCAP). Because LOLE varies in a non-linear fashion with the generation capacity (or load), this LOLE calculation is an iterative process involving reduction of generation capacity until the NYCA's LOLE of 0.08 days/year (as in the Scenario 3A case) is reached. Then, the amount of capacity that was backed off is the "MW Excess".

After several iterations, with 270 MW new generation capacity reduction, the NYCA LOLE reaches 0.08 days/yr. See Table 1. The new generation capacity reductions are shown in Table 2. So the MW capacity impact of the Trial 9 projects is 270 MW.

**Table 1: Calculated LOLE for T9 cases with and without generation reduction, based on zonal UCAP proportion**

Zones	Horizon Year LOLE (days/year)	
	BTP T9 Case	BTP T9 with Reduced New Generation
A	-	-
B	0.02	0.02
C	-	-
D	-	-
E	0.04	0.05
F	0.00	0.00
G	0.06	0.08
H	-	-
I	0.07	0.08
J	0.07	0.08
K	0.08	0.08
NYCA	0.07	0.08

**Table 2: New generation capacity in Trial 9 Case, based on zonal UCAP proportion**

<b>Zone</b>	<b>UCAP Using 2011 Translation Factors (MW)</b>	<b>MW Reduction</b>
ZONE-A	4,743	<b>32</b>
ZONE-B	866	<b>6</b>
ZONE-C	6,421	<b>44</b>
ZONE-D	1,679	<b>0</b>
ZONE-E	972	<b>18</b>
ZONE-F	3,679	<b>25</b>
ZONE-G	2,813	<b>19</b>
ZONE-H	2,227	<b>0</b>
ZONE-I	93	<b>16</b>
ZONE-J	9,758	<b>66</b>
ZONE-K	6,425	<b>44</b>
<b>Total</b>	<b>39,676</b>	<b>270</b>

# **Attachment #14**

**ICAP Cost Savings Calculations**

**Base Transmission Plan - 2030 ICAP Savings for 5% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	237	\$24,330	\$16,788	\$58
Zone J Savings	98	\$51,210	\$20,484	\$42
Zone K Savings	65	\$27,530	\$15,692	\$17
<b>Total NYISO ICAP Savings:</b>				<b>\$117</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	12,796	\$24,330	\$16,788	\$23,196	\$16,005	\$147
Zone J Savings	5,152	\$51,210	\$20,484	\$48,573	\$19,429	\$114
Zone K Savings	3,508	\$27,530	\$15,692	\$25,934	\$14,782	\$53
<b>Total NYISO ICAP Savings:</b>						<b>\$314</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price de-rating factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	237	65	98	400

<b>Escalation Factor:</b>	<b>5.00%</b>
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**Base Transmission Plan - 2030 ICAP Savings for 3% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	237	\$16,890	\$11,654	\$41
Zone J Savings	98	\$35,530	\$14,212	\$29
Zone K Savings	65	\$19,110	\$10,893	\$12
<b>Total NYISO ICAP Savings:</b>				<b>\$82</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	12,796	\$16,890	\$11,654	\$16,102	\$11,111	\$102
Zone J Savings	5,152	\$35,530	\$14,212	\$33,701	\$13,480	\$79
Zone K Savings	3,508	\$19,110	\$10,893	\$18,002	\$10,261	\$37
<b>Total NYISO ICAP Savings:</b>						<b>\$218</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price de-rating factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	237	65	98	400
<b>Escalation Factor:</b>		<b>3.00%</b>		



**Base Transmission Plan - 2030 ICAP Savings for 1% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	237	\$11,630	\$8,025	\$28
Zone J Savings	98	\$24,480	\$9,792	\$20
Zone K Savings	65	\$13,160	\$7,501	\$8
<b>Total NYISO ICAP Savings:</b>				<b>\$56</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	12,796	\$11,630	\$8,025	\$11,088	\$7,651	\$70
Zone J Savings	5,152	\$24,480	\$9,792	\$23,220	\$9,288	\$55
Zone K Savings	3,508	\$13,160	\$7,501	\$12,397	\$7,066	\$25
<b>Total NYISO ICAP Savings:</b>						<b>\$150</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price de-ration factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	237	65	98	400

<b>Escalation Factor:</b>	<b>1.00%</b>
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**Base Transmission Plan Trials 9 & 10 - 2030 ICAP Savings for 5% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	<b>160</b>	<b>\$24,330</b>	<b>\$16,788</b>	<b>\$39</b>
Zone J Savings	<b>66</b>	<b>\$51,210</b>	<b>\$20,484</b>	<b>\$28</b>
Zone K Savings	<b>44</b>	<b>\$27,530</b>	<b>\$15,692</b>	<b>\$11</b>
<b>Total NYISO ICAP Savings:</b>				<b>\$79</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	<b>12,796</b>	<b>\$24,330</b>	<b>\$16,788</b>	<b>\$23,564</b>	<b>\$16,259</b>	<b>\$99</b>
Zone J Savings	<b>5,152</b>	<b>\$51,210</b>	<b>\$20,484</b>	<b>\$49,434</b>	<b>\$19,774</b>	<b>\$77</b>
Zone K Savings	<b>3,508</b>	<b>\$27,530</b>	<b>\$15,692</b>	<b>\$26,450</b>	<b>\$15,076</b>	<b>\$36</b>
<b>Total NYISO ICAP Savings:</b>						<b>\$212</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price deration factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	160	44	66	270

<b>Escalation Factor:</b>	<b>5.00%</b>
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**Base Transmission Plan Trials 9 & 10 - 2030 ICAP Savings for 3% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	<b>160</b>	<b>\$16,890</b>	<b>\$11,654</b>	<b>\$27</b>
Zone J Savings	<b>66</b>	<b>\$35,530</b>	<b>\$14,212</b>	<b>\$20</b>
Zone K Savings	<b>44</b>	<b>\$19,110</b>	<b>\$10,893</b>	<b>\$8</b>
<b>Total NYISO ICAP Savings:</b>				<b>\$55</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	<b>12,796</b>	<b>\$16,890</b>	<b>\$11,654</b>	<b>\$16,358</b>	<b>\$11,287</b>	<b>\$69</b>
Zone J Savings	<b>5,152</b>	<b>\$35,530</b>	<b>\$14,212</b>	<b>\$34,298</b>	<b>\$13,719</b>	<b>\$53</b>
Zone K Savings	<b>3,508</b>	<b>\$19,110</b>	<b>\$10,893</b>	<b>\$18,360</b>	<b>\$10,465</b>	<b>\$25</b>
<b>Total NYISO ICAP Savings:</b>						<b>\$147</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price deration factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	160	44	66	270

<b>Escalation Factor:</b>	<b>3.00%</b>
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**Base Transmission Plan Trials 9 & 10 - 2030 ICAP Savings for 1% ICAP Curve Escalation Factor**

**ICAP Savings Calculation Variant 1**

*Savings = MW Impact (MW) x Price of Projected Available Capacity (\$/MW - Year)*

ICAP Zone	MW Impact (MW)	Projected Summer Capacity Price (\$/MW - Month)	Projected Winter Capacity Price (\$/MW - Month)	Yearly ICAP Savings (M\$)
ROS Savings	160	\$11,630	\$8,025	\$19
Zone J Savings	66	\$24,480	\$9,792	\$14
Zone K Savings	44	\$13,160	\$7,501	\$5
<b>Total NYISO ICAP Savings:</b>				<b>\$38</b>

**ICAP Savings Calculation Variant 2**

*Savings = 50% Projected Available Capacity (MW) x [Price of Projected Available Capacity (\$/MW - Year) - Price of Post Project Capacity (\$/MW - Year)]*

ICAP Zone	50% Projected Capacity (MW)	Projected Summer Capacity Price (\$/MW) - Month	Projected Winter Capacity Price (\$/MW) - Month	Post Project Summer Capacity Price (\$/MW) - Month	Post Project Winter Capacity Price (\$/MW) - Month	Yearly ICAP Savings (M\$)
ROS Savings	12,796	\$11,630	\$8,025	\$11,264	\$7,772	\$48
Zone J Savings	5,152	\$24,480	\$9,792	\$23,631	\$9,452	\$37
Zone K Savings	3,508	\$13,160	\$7,501	\$12,644	\$7,207	\$17
<b>Total NYISO ICAP Savings:</b>						<b>\$101</b>

**Notes**

- 1.) STARS Study assumes that Projected Available Capacity = Required Reserve Margin, no excess.
- 2.) Winter prices determined by capacity price deration factors of 0.69 for NYCA, 0.4 for Zone J, and 0.57 for Zone K.

Capacity Zone	NYCA	K	J	Total
MW Impact	160	44	66	270

<b>Escalation Factor:</b>	<b>1.00%</b>
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