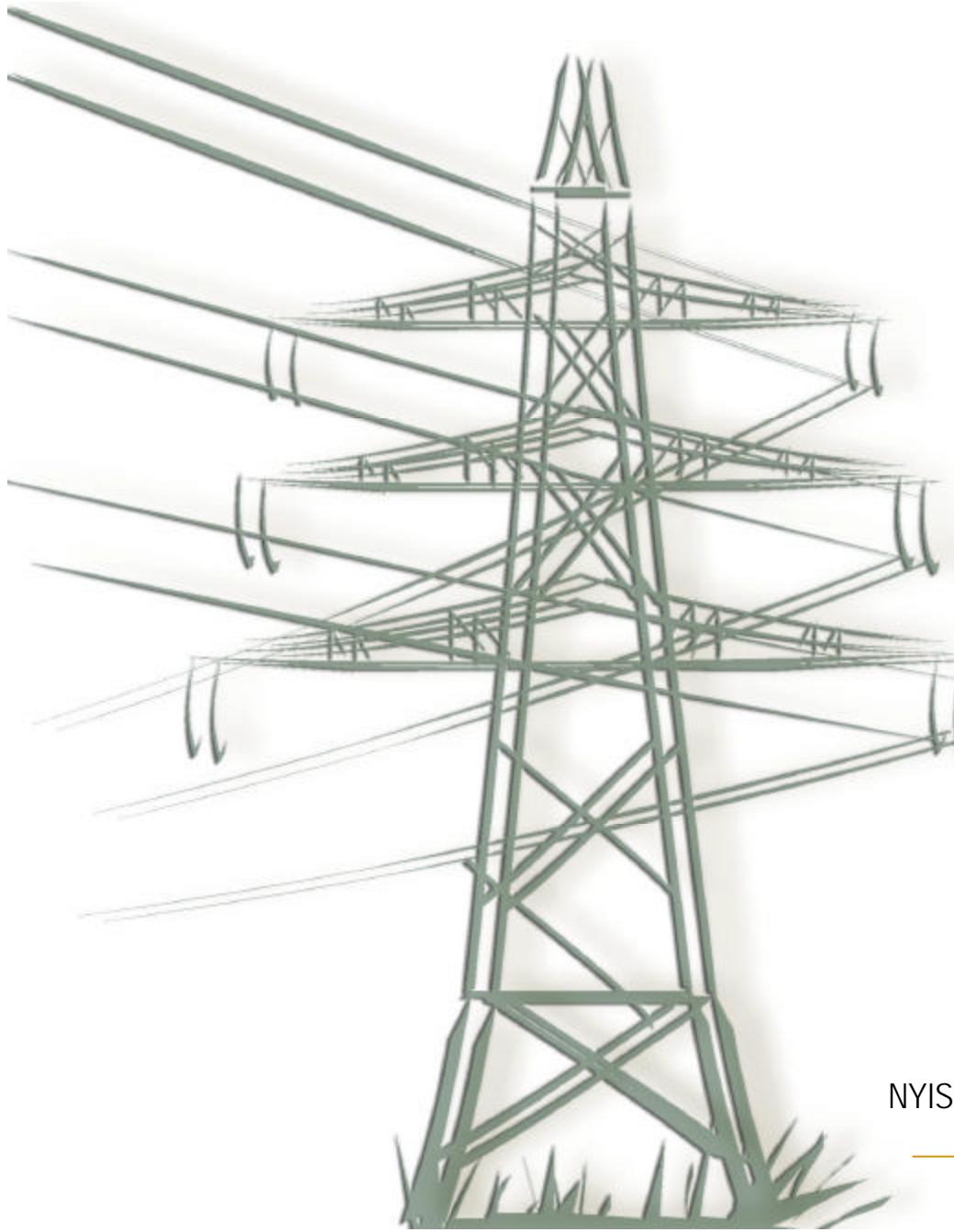


# SUMMER 2001 OPERATING STUDY



MAY 2001  
*prepared by*  
NYISO Operations Engineering



**NYISO OPERATING STUDY - SUMMER 2001**

**MAY 2001**

Prepared by  
Operations Engineering Staff  
New York Independent System Operator, Inc.

And reviewed by  
The NYISO Operating Studies Task Force

NYISO Operating Study  
Summer 2001

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## **NYISO OPERATING STUDY - SUMMER 2001**

### **1. INTRODUCTION**

The following report, prepared by the Operating Studies Task Force (OSTF) at the direction and guidance of the System Operations Advisory Subcommittee (SOAS), highlights the significant results of the thermal analysis completed for the Summer 2001 capability period. This analysis indicates that, for the Summer 2001 capability period, the New York interconnected bulk power system can be operated reliably in accordance with the "NYSRC Reliability Rules for Planning and Operating the New York State Power System" (September 10, 1999) and the NYISO System Operating Procedures.

### **2. RECOMMENDATIONS**

The following recommendations are presented based on the analysis and results documented in this report.

- 1) System Operators should monitor the critical facilities noted in the enclosed tables, along with other limiting conditions, while maintaining bulk system power transfers within secure operating limits.
- 2) The Voltage and Stability Limits are currently under review and will be updated to respect the addition of the Marcy STATCOM facility.
- 3) Installed Capacity (ICAP) resources of 36,132 MW are anticipated to be adequate to meet the forecast peak demand of 30,620 MW. The NYISO may experience operating reserve shortages for as many as 15-20 hours during the period (based on typical load duration exposure).
- 4) The expected operation of phase angle regulators on the four Ontario – Michigan interconnections will not adversely impact the reliability of the New York system.

### **3. SYSTEM REPRESENTATION AND BASE STUDY ASSUMPTIONS**

#### **I. System Representation**

The representation was developed from the NYISO Databank and assumes the forecast Summer coincident peak load of 30,620MW. The other NPCC members and

adjacent regions representations were obtained from MEN/VEM Summer 2001 Inter-regional Reliability Assessment power flow.

For the Summer 2001 peak load period there are no scheduled outages of major generating units. The assumed operating levels for major EHV-connected units is summarized in Appendix B. All generating levels represented are consistent with typical operation for the peak load period. The inter-Area transactions represented in the study base case are summarized in Appendix A, and are consistent with those modeled in the MEN/VEM Summer 2001 Reliability Assessment.

Significant changes in the transmission system for this season include:

Hudson – Farragut 345kV (B3402)	Expected return 5/15/01
Linden – Goethals 230kV (A2252)	Expected return 7/01/01

New transmission facilities represented in this study include:

Middletown 345/138kV transformer	Expected in service 8/15/01
Oakdale 345kV shunt capacitor	In service
Marcy FACTS Phase I (STATCOM)	In service

## **II. Base Study Assumptions**

The Normal and Emergency Criteria thermal limits have been determined by the PTI PSS/e thermal analysis activities (TLTG). The thermal limits presented have been determined for all transmission facilities scheduled in service during the Summer 2001 period.

The schedules used in the base case loadflows for this analysis assumed a net flow of 600MW from PSE&G to Consolidated Edison via the phase-angle-regulating (PAR) transformers controlling the Hudson – Farragut and Linden – Goethals interconnections, and 1000MW on the South Mahwah – Waldwick circuits from Consolidated Edison to PSE&G, controlled by the PARs at Waldwick. The Branchburg - Ramapo 500 kV (5018) circuit is scheduled in accordance with the "Ramapo Phase Angle Regulator Operating Procedure", December 11, 1987. These schedules are consistent with the scenarios developed in the MAAC-ECAR-NPCC Interregional Reliability Assessment for Summer 2001, and the NERC/MMWG Summer 2001 loadflow base case.

Thermal transfer capabilities between New York and adjacent Areas are also determined in this analysis. These transfer limits supplement, but do not change, existing internal operating limits. *There may be facilities internal to each system, that may*

reduce the transfer capability between Areas. Reductions due to these situations are considered to be the responsibility of the respective operating authority.

Some of these potential limitations are indicated in the summary tables by “\_\_\_\_\_ Internal” limits which supplement the “Direct Tie” limits. Transfer conditions within and between neighboring Areas can have a significant effect on inter- and intra-Area transfer capabilities. Coordination of schedules and conditions between Areas is necessary to provide optimal transfer conditions while maintaining the reliability and security of the interconnected systems.

## **4. DISCUSSION**

### **I. Resource Assessment**

#### *Load and Capacity Assessment*

The forecast peak demand for the Summer 2001 period is 30,620 MW. The forecast is 1.0% higher than the 1999 actual summer peak of 30,311MW that occurred on July 6, 1999 which is also the all-time peak for the New York Control Area. The Installed Capacity (ICAP) requirement of 36,132MW, based on the NYSRC 18% reserve requirement, is anticipated to be adequate to meet forecast demand. However, the NYISO may experience operating reserve shortages for as many as 15-20 hours during the period (based on typical load duration exposure). As presented in Table 1 (below), the NYISO expects to have 634MW actual operating reserve during peak load conditions.

**Table 1a**  
**NYISO Peak Load and Capacity Assessment – Summer 2001**

NYISO ICAP Requirement	36132
Net of full-responsibility purchases/sales	0
Scheduled generation outages	0
Allowance for unplanned outages	4878
<b>Net capacity for load</b>	<b>31254</b>
NYISO Forecast Peak	30620
Operating Reserve Requirement	1800
<b>Available Reserve</b>	<b>634</b>
<b>Net Margin</b>	<b>-1166</b>

The assumed allowance for unplanned outages is an equivalent rate of 13.5% and includes forced outages and deratings based on historical performance of all generation in the New York control area.

*Resource Additions – Summer 2001*

Prior to the summer 2001 peak load period, NYISO expects 802 MW of capacity additions and enhancements. Of these capacity additions 717 MW are expected in the New York City load zone and 85 MW in the Long Island load zones. The New York Power Authority (NYPA) plans eleven new units totaling 452MW of natural gas fired combustion turbines in the New York City metropolitan area. These units were announced at the end of the summer 2000 and are on a very compressed development schedule. Of the generation changes expected in the New York City load zone, 249 MW has been completed, 347 MW are “likely” and 121 MW are considered “possible” by June 1, 2001.

**Table 1b**  
**Resource Additions in NYC/LI – Summer 2001**

Generator	Capacity
Orion/Astoria #2 (restart)	175
ConEdison Hudson Ave #10 (restart)	60
Linden/Cogen Tech (upratings)	40
Gowanus GT (repair)	34
NYPA CTs (various NYC locations)	408
NYPA CT (LI location)	44
NYPA Holtsville (uprating)	6
Barrett (uprating) (LI)	26
Glenwood (uprating) (LI)	9

## **II. Cross-State Interfaces**

### **A. Transfer Limit Analysis**

Figure 1 presents a comparison of the Summer 2001 thermal transfer limits with Summer 2000. Changes in these limits from last year are due to changes in the base case load flow generation and load patterns that result in different pre-contingency line loadings, changes in limiting contingencies, or changes in circuit ratings, or line status. The detailed comparison of Cross-State limits between Summer 2000 and 2001, with limiting element/contingency descriptions, is located in Appendix G.

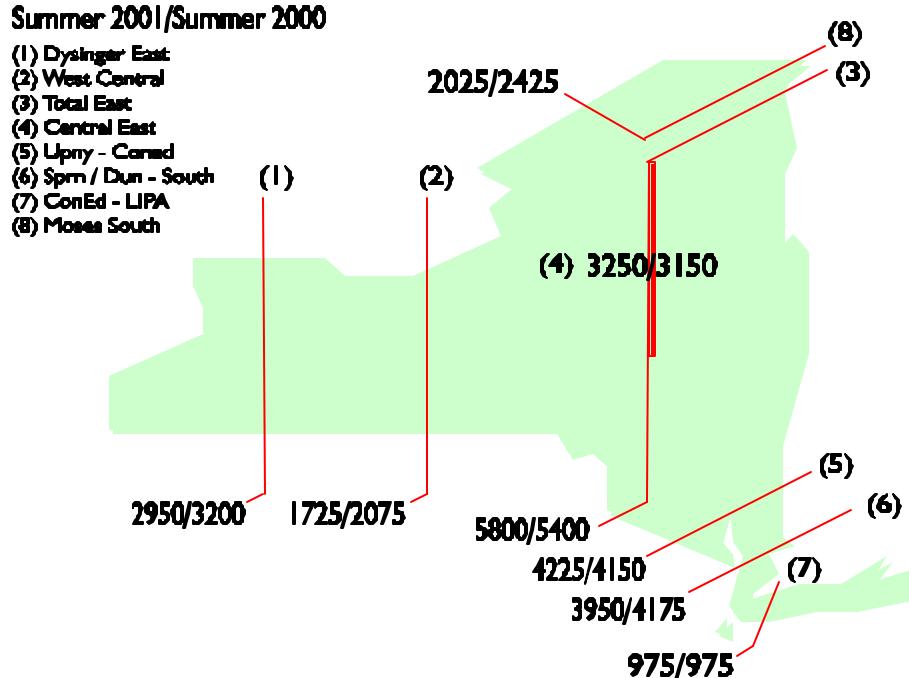


Figure 1 – Cross-State Transfer Limits

- **Dysinger East** and **West Central** limits have decreased by 250MW and 350MW respectively. Increased generation in the Buffalo area (approximately 275MW) has resulted in higher loadings on the limiting circuits.
- **UPNY-ConEd** interface limit has increased 75MW due to slightly lower loading of the Leeds – Pleasant Valley circuits, and slightly higher loading of the Ramapo/Ladentown to Buchanan circuits caused by higher flow on the Branchburg – Ramapo interconnection.
- **Sprain Brook/Dunwoodie – South** interface limit has decreased 225MW due to changes in pre-contingency circuit loading causing the Sprain Brook – West 49<sup>th</sup> Street circuits to be more limiting than the Dunwoodie – Rainey circuits.
- **Central East** and **Total East** thermal transfer limits have increased; however this will not result in increased overall transfer capability as both of these interfaces will continue to be limited by voltage and stability performance. (Changes in the Central East voltage and stability limits resulting from the addition of the Marcy FACTS Phase I project are reported separately in the “*Central East Voltage and Stability Analysis for Marcy FACTS Project – Phase I*,” April 11, 2001.)

B. Sensitivity Testing

The thermal limits presented in Section 5 were determined using the base conditions and transactions. The effects of various intra- and inter-Area transfers or generation patterns in the system are presented in Appendix G.

Phase angle regulator schedules may vary from day-to-day. Sensitivity analysis for selected interfaces has been included for the Ramapo, St. Lawrence, and Northport interconnections. Graphs showing the sensitivity of the interface limit to the PAR schedule are included in Appendix G.

C. West Woodbourne Transformer

The Total-East interface may be limited at significantly lower transfer levels for certain contingencies that result in overloading of the West Woodbourne 115/69kV transformer. Should the West Woodbourne tie be the limiting facility, it may be removed from service to allow higher Total-East transfers. An overcurrent relay is installed at West Woodbourne to protect for contingency overloads.

D. LIPA Import Analysis

Normal transfer limits were determined using the base case generation dispatch and PAR settings as described in Appendix B. Both normal and emergency limits are dispatch dependant and can vary based on generation and load patterns in the LIPA system.

For emergency transfer limit analysis the ConEd - LIPA PARS were adjusted to allow for maximum transfer capability into LIPA:

ConEd - LIPA PAR Settings for Emergency Conditions

Jamaica - Lake Success	0MW
Jamaica - Valley Stream	272MW
Sprain Brook - East Garden City	670MW
Norwalk Harbor – Northport	286MW

On July 4, 2000, the Northport - Norwalk 138 kV interconnection was placed back in service. Several times since being placed back in service, the LIPA system operator has been unable to control the power flow on the tie because

the Northport phase angle regulator reached its maximum tap (33). This generally has occurred with light generation on Long Island and high southern New England generation. System Operators should closely monitor this situation.

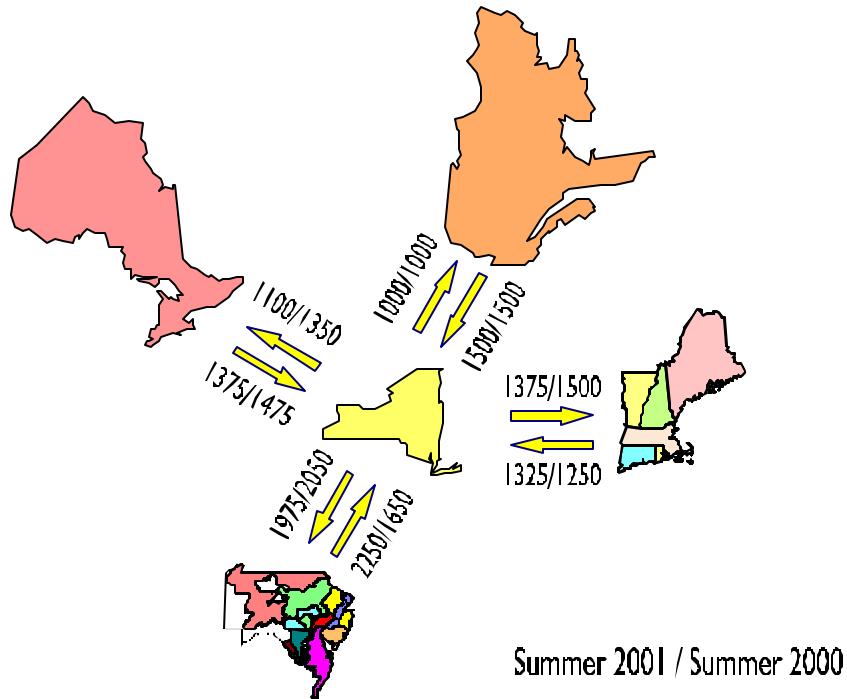
E. Transfer Limits for Outage Conditions

Transfer limits for scheduled outage conditions are determined by the NYISO Scheduling and Market Operations groups. The NYISO real-time Security Constrained Dispatch system monitors the EHV transmission continuously to maintain the secure operation of the interconnected system.

F. Transient Stability Limits

The thermal interface limits in Section 5 do not include the results of transient stability testing. The existing all lines in service and maintenance outage stability interface limits are summarized in Appendix I.

### III. Transfer Capabilities with Adjacent Control Areas



**Figure 2 – Inter-Area Transfer Capabilities**

#### A. New York – ISO New England Analysis

##### 1. New England Capacity Additions

In the New England Control Area, from April 2000 through January 2001, approximately 1,200 MW (summer rating) of new capacity has been added with an additional forecast of 881 MW to be in service prior to June 1, 2001. During the summer 2001 peak load period, an additional 554 MW of capacity is expected to become available. Since the beginning of last Summer's (2000) capability period, the following new generation has become available or is expected to be available (by June, 2001).

Generator Project Name	Capacity
Bucksport (ME)	169
Millenium (MA)	331
ANP Blackstone (MA)	553
Lake Road (CT)	810
Westbrook (ME)	520
Wallingford (CT)	211
Maine Independence (ME)	470
Tiverton (RI)	256
Rumford (ME)	266
Androscoggin Unit #3 (ME)	38

2. Thermal Analysis

The transfer limits between the NYISO and ISO New England for normal and emergency transfer criteria are summarized in Section 5, Table 2. Referring to Figure 2, above, the transfer capability from NY to NE has decreased by 125MW due to an increase in the pre-transfer loading of the Pleasant Valley – Long Mountain 345kV line toward NE. This also results in a similar increase in the NE to NY transfer capability.

3. CHG&E and Northeast Utilities will operate the Smithfield-Falls Village 69kV line (FV/690) normally closed during the summer period. The maximum allowable transfer on this line is 28 MVA, based on limitations in the Northeast Utilities 69 kV system. The FV/690 has overcurrent protection that will trip the line in the event of an actual overload. This facility will not limit NYISO-ISO-NE transfers.

4. Northport - Norwalk Harbor Cable Flow

As system conditions vary the following may be used to optimize transfer capability between the Areas. Exhibits in Appendix G graphically demonstrate the optimization of transfer capability by regulating the flow on the Northport-Norwalk Harbor tie.

**New York to New England:** With power flowing from New York to New England on the Northport to Norwalk Harbor (1385) cable, potential overloads of the Norwalk Harbor to Rowayton Junction (1867) and the Norwalk Harbor to Rowayton Junction (1880) circuits must be considered as follows:

- The flow from Norwalk Harbor to Rowayton Junction (1867) should not exceed 237 MVA (Normal rating of Norwalk Harbor to Rowayton Junction (1867)).
- The flow from Norwalk Harbor to Rowayton Junction (1880) should not exceed 214 MVA (Normal rating of Norwalk Harbor to Rowayton Junction (1880)).

**New England to New York:** With power flowing from New England to New York on the Norwalk Harbor to Northport (1385) cable, potential overloads of the Trumbull Junction to Weston (1730) circuit must be considered as follows:

- The algebraic sum of the flow from Trumbull Junction to Weston (1730) and 27% of the flow from Pequonnock to Trumbull Junction (1710) and 29% of the flow from Devon to Trumbull Junction (1710) should not exceed 239 MVA (STE rating of Trumbull Junction to Weston (1730)).
- The algebraic sum of the flow from Trumbull Junction to Weston (1730) and 25% of the flow from Pequonnock to Ash Creek (91001) and 21% of the flow from Bridgeport Resco should not exceed 239 MVA (STE rating of Trumbull Junction to Weston (1730)).
- In order to transfer 200 MVA from Norwalk Harbor to Northport, Norwalk Harbor generation should be on.

5. Plattsburgh – Sandbar (PV-20) Circuit

A new phase angle regulating transformer controlling the Plattsburgh, New York to Sandbar, Vermont circuit (PV-20) was placed in service in February, 2001 and normal operating procedures have been restored.

6. Transient Stability Limitations

For certain system configurations, stability performance determines the transfer capability between the Areas. For those instances, the limits have been obtained from the report "1992-1996 NYPP-NEPOOL TRANSFER LIMIT STUDY - OCTOBER 1992." These stability transfer limits are presented in Appendix I.

The stability limits are expressed in terms of the transfer on the "Northern Ties", i.e., excluding flow on the Norwalk Harbor – Northport circuit. Stability limits for transfers from New England to New York are a function of the New England MW load level, and include the effect of Northfield and Bear Swamp in the generating and pumping mode.

**B. New York - PJM Analysis**

1. Thermal Analysis

The transfer limits for the New York - PJM interface are summarized in Section 5, Table 3. The comparison with Summer 2000 in Figure 2, above, shows an increase of 600MW transfer capability toward NY. This is due to the changes in assumed phase angle regulator schedules in Summer 2001 and the return of the Hudson – Farragut circuit (B3402) which was out of service in the Summer 2000 analysis.

2. Opening of PJM to New York 115 kV Ties as Required

The normal criteria thermal transfer limits presented in Section 5 were determined for an all-lines-in service condition. The 115kV interconnections between GPU Energy and New York (Warren - Falconer, North Waverly - East Sayre, and Tiffany - Goudey), may be opened in accordance with NYISO and PJM Operating Procedures provided this does not cause unacceptable impact on local reliability in either system. Overcurrent relays are installed on the Warren - Falconer and the North Waverly - East Sayre 115kV circuits; either of these circuits would trip by relay action for an actual overload condition. There is no overload protection on the Laurel Lake - Goudey circuit, however it may be opened by operator action if it imposes an actual or post-contingency overload condition. The results presented in Table 3 include limits that assume one (or more) of these lines removed from service to achieve higher inter-Area transfer capability.

**C. Ontario – New York Analysis**

1. Thermal Analysis

The thermal limits between the New York ISO and the Independent Market Operator (IMO-Ontario) Areas for normal and emergency transfer criteria are presented in Section 5, Table 4. The New York to Ontario limit has decreased 250MW due to higher pre-contingency flows on the Queenston Flow West

(QFW) transmission circuits (westward from Beck to Hamilton, Ontario). The Ontario to New York limit has decreased 100MW due to increased generation in the Buffalo area.

2. Transient Stability Limitations

Transient stability limits for the NYISO - IMO interconnection are reported in "NYPP-OH TRANSIENT STABILITY TESTING REPORT on DIRECT TIE TRANSFER CAPABILITY - OCTOBER 1993." This stability testing is summarized in Appendix I of this report.

3. Ontario – Michigan PARs

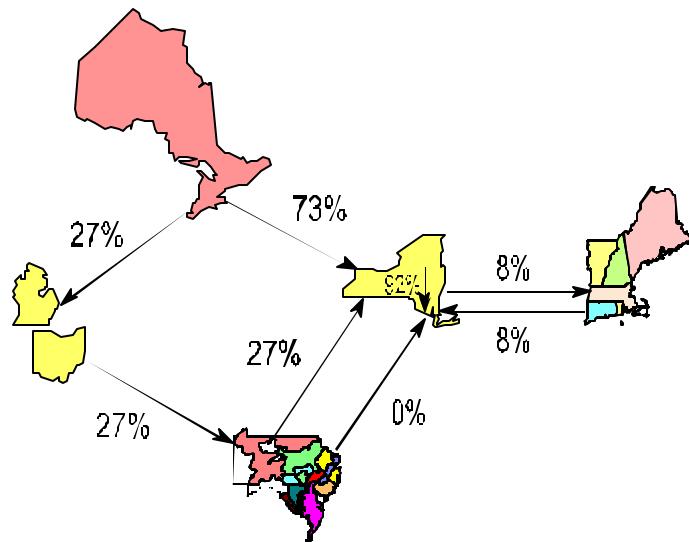
Phase Angle Regulating transformers are being installed on the interconnections between Ontario and Michigan:

Lambton – St. Clair 345kV	L4D
Lambton – St. Clair 230kV	L51D
Scott – Bunce Creek 230kV	B3N

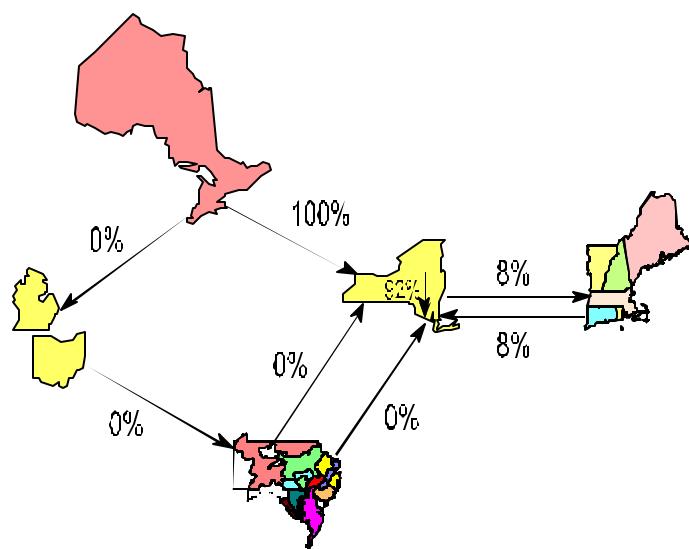
A PAR has been in service on the Keith – Waterman 230kV J5D circuit. The new PARs will allow scheduling of up to 2580MW from Ontario to Michigan and minimize the impact of counter-clockwise flow around Lake Erie. This anticipated normal operating mode maintains flow across the Michigan-Ontario interface equal to the interchange schedule between the DECo and IMO control areas. During emergencies, these PARs can be operated to provide maximum reasonable assistance to relieve the emergency. The new L51D and B3N PARs are available, but not in service; the L4D PAR is not expected to be available for service until mid-August, 2001.

As demonstrated in Figure 2, the addition of the Ontario -Michigan PARs and operation to schedule does not adversely impact the direct tie transfer capability between IMO and NYISO. The installation of these PARs will serve to limit the impact of “loop-flow” on transfers between IMO and NYISO and on transfers between NYISO and PJM, also.

For the assessment of NYISO - IMO transfer limits, the Michigan - Ontario PARs were assumed to be holding scheduled flow to Michigan. The transfer limits determined represent conservative transfer capabilities. Figures 3 and 4 compare transfer conditions of previous assessments (free-flowing) with the current analysis (flow controlled to schedule).



**Figure 3**  
**Ontario-Michigan PARs Free-flow**



**Figure 4**  
**Ontario-Michigan PARs Regulating (Flow = Schedule)**

4. Generation Rejection for Loss of L33P/L34P-Moses

The interface limits were determined for a particular load, transmission and generation pattern. When system conditions vary from those forecast in the study, normal interface limits may vary. Generation rejection special protection systems (SPSs) are available at Beauharnois and Saunders to reject generation for the loss of the L33P and/or L34P interconnections. These SPSs can be selected by the IMO operator pre-contingency consistent with system conditions.

Of the two circuits, L33P is more limiting. At 0 degrees phase shift the limiting STE rating is 465 MVA (voltage regulator rating). The outage distribution factor for the loss of L34P is 0.601 and based on this, the maximum pre-contingency flow on each circuit should not exceed 290 MW. At 40 degrees phase shift the limiting STE rating is 334 MVA (PAR rating). The outage distribution factor for the loss of L34P is 0.462 and based on this, the maximum flow on each circuit should not exceed 228 MW.

D. TransEnergie–New York Interface

Thermal transfer limits between TransEnergie (Hydro-Quebec) and New York are not analyzed as part of this study. Transfers between the NYISO and TE are generally stability limited. Based on system conditions observed during actual system operation during the Summer 2000, and additional testing conducted during that season, the total allowable delivery level for the Chateauguay – Massena 765kV interconnection is limited to 1500MW. Respecting the NYSRC and NYISO operating reserve requirements, the maximum allowable delivery into the NYCA from TE is limited to 1200MW.

**5. SUMMARY OF RESULTS  
TRANSFER LIMIT ANALYSIS**

NYISO OPERATING STUDY  
SUMMER 2001

TABLE 1

NYISO CROSS STATE INTERFACE THERMAL LIMITS-SUMMER 2001  
ALL LINES I/S

	Dysinger East	West Central	UPNY-ConEd	Sprain Brook Dunwoodie So.	ConEd-LIPA
NORMAL	2950 <sup>(1)</sup>	1725 <sup>(1)</sup>	4225 <sup>(3)</sup>	3950 <sup>(4)</sup>	975 <sup>(5)</sup>
EMERGENCY	3250 <sup>(2)</sup>	2025 <sup>(2)</sup>	4875 <sup>(3)</sup>	3950 <sup>(4)</sup>	1525 <sup>(6)</sup>
<b>LIMITING ELEMENT</b>					
(1)	Niagara – Rochester (NR2) 345kV	@LTE	1502 MW	L/O	AES/Somerset – Rochester (SR-1) 345kV
(2)	Stolle Rd. – Meyer (67) 230kV	@NOR	430 MW	Pre-contingency loading	
(3)	Leeds – Pleasant Valley 345kV	@LTE @STE	1538 MW 1724 MW	L/O	Leeds – Pleasant Valley 345kV
(4)	Sprain Brook – W. 49 <sup>th</sup> Street 345kV	@NOR	774 MW	Pre-contingency Loading	
(5)	Dunwoodie – Shore Rd. (Y50) 345kV	@LTE	877 MW	L/O	Sprain Brook – E.G.C (Y49) 345kV
(6)	Dunwoodie – Shore Rd. (Y50) 345kV	@NOR	599 MW	Pre-contingency Loading	
<b>LIMITING CONTINGENCY</b>					

**NOTE:** Some transfers may be stability limited. See Appendix I for existing transient stability limits.

## NYISO OPERATING STUDY SUMMER 2001

TABLE 1.a

NYISO CROSS STATE INTERFACE THERMAL LIMITS-SUMMER 2001  
ALL LINES I/S

	HQ -> NY @ 800 MW	HQ -> NY @ 1200 MW	HQ -> NY @ 1600 MW
<b>CENTRAL EAST</b>			
NORMAL	3200 <sup>(1)</sup>	3250 <sup>(1)</sup>	3300 <sup>(2)</sup>
EMERGENCY	3575 <sup>(2)</sup>	3575 <sup>(2)</sup>	3575 <sup>(3)</sup>
<b>TOTAL EAST</b>			
NORMAL	5775 <sup>(1)</sup>	5800 <sup>(1)</sup>	5825 <sup>(2)</sup>
EMERGENCY	6525 <sup>(2)</sup>	6500 <sup>(2)</sup>	6400 <sup>(3)</sup>
<b>MOSES SOUTH</b>			
NORMAL	1825 <sup>(4)</sup>	1975 <sup>(4)</sup>	2150 <sup>(4)</sup>
EMERGENCY	2275 <sup>(5)</sup>	2575 <sup>(5)</sup>	2900 <sup>(5)</sup>

LIMITING ELEMENT			LIMITING CONTINGENCY		
(1)	Fraser–Coopers Corners (FCC-33) 345kV	@LTE	1404MW	L/O	Marcy – Coopers Corners (UCC2-41) 345kV Porter – Rotterdam (30) 230 kV
(2)	New Scotland – Leeds (93) 345kV	@LTE @STE	1538MW 1724MW	L/O	New Scotland – Leeds (94) 345kV
(3)	Marcy - New Scotland (UNS-18) 345kV	@STE	1792MW	L/O	Edic – New Scotland (14) 345kV
(4)	Adirondack B2 – Porter (12) 230kV	@LTE	353 MW	L/O	(breaker failure @ Porter 230kV) Adirondack B1 – Porter (11) 230kV Edic (T2) 345/230kV Edic (T4) 345/115kV
(5)	Moses – Adirondack B1 230kV	@STE	440MW	L/O	Massena – Marcy (MSU-1) 765kV Chateauguay – Massena (MSC-7040) 765kV and Trans Energie delivery

NOTE: Some transfers may be stability limited. See Appendix I for existing transient stability limits.

TABLE 2.a

NYISO to ISO-NE INTERFACE LIMITS - SUMMER 2001  
ALL LINES I/S

New York to New England		Northport – Norwalk @ 100MW		
		DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY
NORMAL	1375 <sup>(1)</sup>		1325 <sup>(3)</sup>	2300 <sup>(4)</sup>
EMERGENCY	2175 <sup>(2)</sup>		1850 <sup>(3)</sup>	
Northport – Norwalk @ 0 MW				
NORMAL	1775 <sup>(5)</sup>		1200 <sup>(3)</sup>	2150 <sup>(4)</sup>
EMERGENCY	2550 <sup>(6)</sup>		1725 <sup>(3)</sup>	
LIMITING ELEMENT			LIMITING CONTINGENCY	
(1)	Norwalk - Northport (1385) 138kV	@LTE	318 MW	L/O (breaker failure @ Long Mtn 345 kV) Long Mtn – Plumtree (321) 345 kV Long Mtn – Frost Bridge (352) 345 kV Pleasant Valley – Long Mtn (398) 345 kV
(2)	Norwalk - Northport (1385) 138kV	@STE	428 MW	L/O Pleasant Valley – Long Mtn (398) 345kV
(3)	Reynolds Rd. - Greenbush (9) 115kV	@LTE @STE	197 MW 248 MW	L/O New Scotland – Alps (2) 345kV
(4)	Bear Swamp – Pratts Jct 230 kV	@STE	369 MW	L/O Sandy Pond HVDC @ 1800 MW
(5)	Pleasant Valley–Long Mountain (398) 345kV	@LTE	1317 MW	L/O Sandy Pond HVDC @ 1800 MW
(6)	Pleasant Valley-Long Mountain (398) 345kV	@NOR	1135 MW	Pre-contingency loading
(5)	Hoosick– Bennington 115kV	@STE	159 MW	L/O Alps -- Berkshire – Northfield (393) 345kV Berkshire 345/115kV

Note: Northport – Norwalk Harbor flow is positive in the direction of transfer.

NYISO OPERATING STUDY  
SUMMER 2001

TABLE 2.b

ISO-NE to NYISO INTERFACE LIMITS - SUMMER 2001  
ALL LINES I/S

New England to New York		Norwalk – Northport @ 100MW		
	DIRECT TIE	NYISO FACILITY	ISO-NE FACILITY	
NORMAL	1325 <sup>(1)</sup>	1400 <sup>(3)</sup>	850 <sup>(5)</sup>	
EMERGENCY	1800 <sup>(2)</sup>	2625 <sup>(4)</sup>	850 <sup>(5)</sup>	
Norwalk – Northport @ 200MW				
NORMAL	825 <sup>(1)</sup>	1475 <sup>(3)</sup>	900 <sup>(5)</sup>	
EMERGENCY	1325 <sup>(1)</sup>	2700 <sup>(4)</sup>	900 <sup>(5)</sup>	
LIMITING ELEMENT			LIMITING CONTINGENCY	
(1)	Norwalk - Northport (1385) 138kV	@LTE @STE	318 MW 428 MW	L/O Pleasant Valley – Long Mountain (398) 345kV
(2)	Hoosick - Bennington 115kV	@STE	159 MW	L/O Alps – Reynolds 345kV New Scotland – Alps 345kV Alps – Berkshire (393) 345kV
(3)	New Scotland – Leeds 345kV	@LTE	1538 MW	L/O New Scotland – Leeds 345 kV
(4)	New Scotland – Leeds 345kV	@STE	1724 MW	L/O New Scotland – Leeds 345kV
(5)	Southington – Canal (1910) 115kV	@STE	306 MW	L/O Southington – Frost Brodge (329) 345kV

Note: Norwalk Harbor – Northport cable schedule is positive in the direction of transfer

TABLE 3.a

PJM to NYISO INTERFACE LIMITS-SUMMER 2001  
ALL LINES I/S

PJM to NYISO	DIRECT TIE	NYISO FACILITY	PJM FACILITY
NORMAL	325 <sup>(1)</sup>		
3-115-O/S	3000 <sup>(2)</sup>		2250 <sup>(3)</sup>
EMERGENCY	600 <sup>(1)</sup>		
3-115-O/S	3050 <sup>(2)</sup>		2675 <sup>(3)</sup>

LIMITING ELEMENT			LIMITING CONTINGENCY		
(1)	Warren-Falconer (171) 115 kV	@LTE @STE	120 MW 136 MW	L/O	Forest – Glade 230kV Lewis 230/115 kV Lewis 230/34.5 kV
(2)	E. Towanda-Hillside (70) 230kV	@LTE	531 MW 554 MW	L/O	Homer City - Watercure (30) 345kV
(3)	No. Meshoppen 230/115kV	@LTE @STE	155 MW 205 MW	L/O	E. Towanda – No. Meshoppen 230kV

**NOTE:** Emergency Transfer Limits may require line outages as described in Section 4.III. PAR schedules have been optimized for the emergency limits as described in Appendix B. Some transfers may be stability limited. See Appendix I for existing transient stability limits.

NYISO OPERATING STUDY  
SUMMER 2001

TABLE 3.b

NYISO to PJM INTERFACE LIMITS-SUMMER 2001  
ALL LINES I/S

NYISO to PJM	DIRECT TIE	NYISO FACILITY	PJM FACILITY
NORMAL	1950 <sup>(1)</sup>		1700 <sup>(2)</sup>
3-115-O/S	1975 <sup>(2)</sup>		
EMERGENCY	2050 <sup>(4)</sup>		2325 <sup>(3)</sup>
3-115-O/S	2625 <sup>(5)</sup>		2250 <sup>(3)</sup> 2350 <sup>(6)</sup>

LIMITING ELEMENT			LIMITING CONTINGENCY		
(1)	E. Sayre - N. Waverly 115kV	@LTE	124 MW	L/O	Grover – E. Towanda 230 kV E. Towanda - Hillside 230 kV E. Towanda 230/115 kV
(2)	Homer City 345/230 kV	@LTE	699 MW	L/O	Homer City 345/230kV
(3)	Homer City 345/230 kV	@STE	912 MW	L/O	Homer City 345/230 kV
(4)	E. Sayre - N. Waverly 115kV	@Emer	124 MW	L/O	E. Towanda – Hillside 230kV
(5)	Erie South – South Ripley 230kV	@NOR	499 MW	L/O	Pre-contingency loading
(6)	Erie South – Erie West 230kV	@Emer	477 MW	L/O	Erie West – Wayne 345kV Wayne 345/115kV

**NOTE:** Emergency Transfer Capability Limits may have required line outages as described in Section 4.III. PAR schedules have been optimized for the emergency limits as described in Appendix B. Some transfers may be stability limited. See Appendix I for existing transient stability limits.

TABLE 4

NYISO- IMO INTERFACE LIMITS - SUMMER 2001  
ALL LINES I/S

<b>Ontario to New York</b>		<b>L33/34P @ 0 MW</b>		<b>L33/34P @ 400 MW</b>	
		DIRECT TIE	NYISO FACILITY	IMO FACILITY	DIRECT TIE
NORMAL	1975 <sup>(1)</sup>	925 <sup>(2)</sup>		1425 <sup>(3)</sup>	2350 <sup>(1)</sup>
EMERGENCY	2350 <sup>(1)</sup>	1325 <sup>(2)</sup>			2725 <sup>(1)</sup>
<b>New York to Ontario</b>		<b>L33/L34P @ 0 MW</b>		<b>L33/34P @ 200 MW</b>	
NORMAL	1325 <sup>(4)</sup>		825 <sup>(6)</sup>	1525 <sup>(4)</sup>	1100 <sup>(6)</sup>
EMERGENCY	1500 <sup>(5)</sup>		1700 <sup>(7)</sup>	1725 <sup>(5)</sup>	1900 <sup>(7)</sup>
LIMITING ELEMENT			LIMITING CONTINGENCY		
(1)	Beck - Niagara 230kV (PA27)	@LTE @STE	460 MW 558 MW	L/O	Beck - Niagara (PA302) 345kV
(2)	Niagara - Rochester (NR-2) 345kV	@LTE @STE	1502 MW 1686 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(3)	Middleport – Neal Jct 220kV (Q25BM)	@LTE	517 MW	L/O	Beck- Hannon-Middleport (Q24HM) 220kV Beck-Neal Jct-Burlington (Q23BM) 220kV
(4)	Beck - Niagara (PA27) 230kV	@LTE	460 MW	L/O	Beck – Packard (BP76) 230 kV Niagara – Packard 230 kV
(5)	Beck - Niagara 230kV (PA27)	@NOR	400 MW		Pre-Contingency Loading
(6)	Neal Jct – Burlington 220kV (Q23BM)	@LTE	583 MW	L/O	Beck- Hannon-Nebo (Q24HM) 220kV Beck-Neal Jct-Burlington (Q23BM) 220kV
(7)	Beck 2 – Hannon 220kV (Q29HM)	@NOR	534 MW		Pre-Contingency Loading

**NOTE:** Some transfers may be stability limited. See Appendix I for existing transient stability limits.

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## APPENDIX A

### SCHEDULE OF SIGNIFICANT INTERCHANGES ASSUMED FOR TRANSFER LIMITS STUDIES

SUMMER 2001



**SCHEDULE OF NET INTERCHANGES**

**NYISO Operating Study – SUMMER 2001**  
**Appendix A**

<b>TO</b>	<b>NYISO</b>	<b>PJM</b>	<b>IMO</b>	<b>ISONE</b>	<b>NB/NS</b>	<b>ECAR</b>	<b>HQ</b>	<b>TOTAL EXPORT+ IMPORT-</b>
<b>FROM</b>								
<b>NYISO</b>		-392	0	126	0	82	-1200	-1384
<b>PJM</b>	392		0	0	0	-618	0	74
<b>IMO</b>	0	0		0	0	600	-800	-400
<b>ISONE</b>	-126	0	0		-700	0	-2067	-2893
<b>NB/NS</b>	0	0	0	700		0	0	700
<b>ECAR</b>	-82	618	0	0	0		0	-219
<b>HQ</b>	1200	0	800	2067	0	0		4067

**APPENDIX A**  
**SUMMARY OF SUMMER 2001 BASE TRANSFERS**

<b>NEW BRUNSWICK/NOVA SCOTIA</b>	
New Brunswick to Hydro-Quebec: Madawaska and Eel River HVdc	0
New Brunswick to New England.	700
<b>Total Export (+) / Import (-)</b>	<b>700</b>
<b>NEW ENGLAND</b>	
New England to New Brunswick.	-700
New England to Hydro-Quebec: Sandy Pond and Highgate HVdc	-2000
New England to Hydro-Quebec: NE radial load in Quebec	-67
New England to New York.	-126
<b>Total Export (+) / Import (-)</b>	<b>-2893</b>
<b>NEW YORK ISO</b>	
New York to Hydro Quebec	-1200
New York to New England (NYPA to VELCO)	126
New York to Hydro Quebec (Cornwall)	0
New York to PJM: NYPA to PA-RECS	94
New York to PJM. (Sithe Allegheny)	-36
New York to ECAR: NYPA to AMP- Ohio	82
New York to IMO (Ontario)	0
New York to PJM. (Non-Firm Energy)	-450
<b>Total Export (+) / Import (-)</b>	<b>-1384</b>

<b>IMO (Ontario)</b>	
IMO (Ontario) to Hydro-Quebec.	-800
IMO (Ontario) to New York	0
IMO (Ontario) to MECS (DECO)	600
IMO (Ontario) to MAPP	-200
<b>Total Export (+) / Import (-)</b>	<b>-400</b>

**APPENDIX A**  
**SUMMARY OF SUMMER 2001 BASE TRANSFERS**

<b>PJM</b>	
PJM to New York: NYPA to PA-RECS	-94
PJM to New York. ( Sithe Allegheny to NYSEG)	36
PJM to New York: (Non Firm Energy)	450
PJM to VACAR.	300
PJM to ECAR.( DLCO to PEPCO)	- 100
PJM to ECAR.( FE to PEPCO)	- 450
PJM to ECAR.( HE to PECO)	- 400
PJM to FE. (Seneca Pumped Hydro)	332
<b>Total Export (+) / Import (-)</b>	<b>74</b>

<b>HYDRO-QUEBEC</b>	
Hydro-Quebec to Brunswick. Madawaska and Eel River HVdc	0
Hydro-Quebec to New England: Sandy Pond and Highgate HVdc	2000
Hydro-Quebec to New England: NE radial load	67
Hydro-Quebec to New York	1200
Hydro-Quebec to Cornwall	0
Hydro-Quebec to IMO (Ontario)	800
<b>Total Export (+) / Import (-)</b>	<b>4067</b>

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**APPENDIX B**  
**SUMMER 2001 BASE CASE CONDITIONS**



A. SUMMER 2001 Conditions

**GENERATION FACILITIES (LEVEL OF MWS IN CASE)**

The status and dispatch of generation represented in this analysis is listed below.

**NYISO**

Indian Pt #2	931 MW	In Service
Indian Pt #3	980 MW	In Service
AES/Somerset	642 MW	In Service
Nine Mile Pt #1	607 MW	In Service
Nine Mile Pt #2	1212 MW	In Service
Oswego #5	0 MW	In Service
Oswego #6	881 MW	In Service
Albany	194 MW	In Service
Ravenswood #3	966 MW	In Service
Roseton 1	445 MW	In Service
Roseton 2	585 MW	In Service
Bowline Pt 1	554 MW	In Service
Bowline Pt 2	0 MW	In Service
Niagara (1-13)	2855 MW	In Service
St. Lawrence/FDR (17-32)	900 MW	In Service
Poletti	819 MW	In Service
Gilboa	489 MW	In Service
CoGen Tech	643 MW	In Service
J.A. Fitzpatrick	849 MW	In Service
JMC Selkirk II (A.B.C)	339 MW	In Service
Saranac Energy	239 MW	In Service
Sithe	1099 MW	In Service
Ginna	509 MW	In Service

***ISO-NE***

Millstone Point #2	857 MW	In Service
Millstone Point #3	1137 MW	In Service
Vermont Yankee	502 MW	In Service
Northfield 1-4	270 MW	In Service
Bear Swamp 1+2	280 MW	In Service
Norwalk Harbor 1+2	159/168 MW	In Service
Seabrook	1150 MW	In Service

***IMO (Ontario)***

Darlington	3720 MW	In Service
Beck	1355 MW	In Service
Bruce >B=	3300 MW	In Service
Lambton	2040 MW	In Service
Pickering >B=	1620 MW	In Service
Nanticoke	3500 MW	In Service
St. Lawrence/Saunders (1-16)	848 MW	In Service

***PJM***

Peach Bottom #2	1092 MW	In Service
Peach Bottom #3	1093 MW	In Service
Salem #1	0 MW	O/S
Salem #2	1106 MW	In Service
Limerick #1	1134 MW	In Service
Limerick #2	1150 MW	In Service
Hope Creek	1031 MW	In Service
Susquehanna #1	1106 MW	In Service
Susquehanna #2	1110 MW	In Service

### HQ HVdc CONVERTER SCHEDULES

Chateauguav HVdc	700 MW	In Service
Sandy Pond HVdc	1800 MW	In Service
Highgate HVdc	200 MW	In Service
Madawaska HVdc	0 MW	In Service
Eel River HVdc	0 MW	In Service

### AREA LOADS & LOSSES

NYISO	31208 MW
ISO-NE	23692 MW
IMO (Ontario)	23560 MW
PJM	51725 MW

### PHASE ANGLE REGULATOR SCHEDULES

Inghams (CD-ED)	120 MW
Plattsburgh-Sandbar (PV-20)	0 MW
St. Lawrence-Moses L33P	0 MW
St. Lawrence-Moses L34P	0 MW
Norwalk Harbor-Northport	200 MW
Jamaica-Valley Stream	0 MW
Jamaica-Lake Success	-200 MW
Hudson-Farraugut (B3402)	300 MW
Hudson-Farraugut (C3403)	300 MW
Linden-Goethals	0 MW
Waldwick-Hinchmans	310 MW
Waldwick-Fairlawn	300 MW
Waldwick-Hillsdale	330 MW
Ramapo PAR #1 (+ to NY)	265 MW
Ramapo PAR #2 (+ to NY)	265 MW
East Garden City #1	335 MW
East Garden City #2	335 MW

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## APPENDIX C

### POWER FLOW TRANSCRIPTION DIAGRAMS

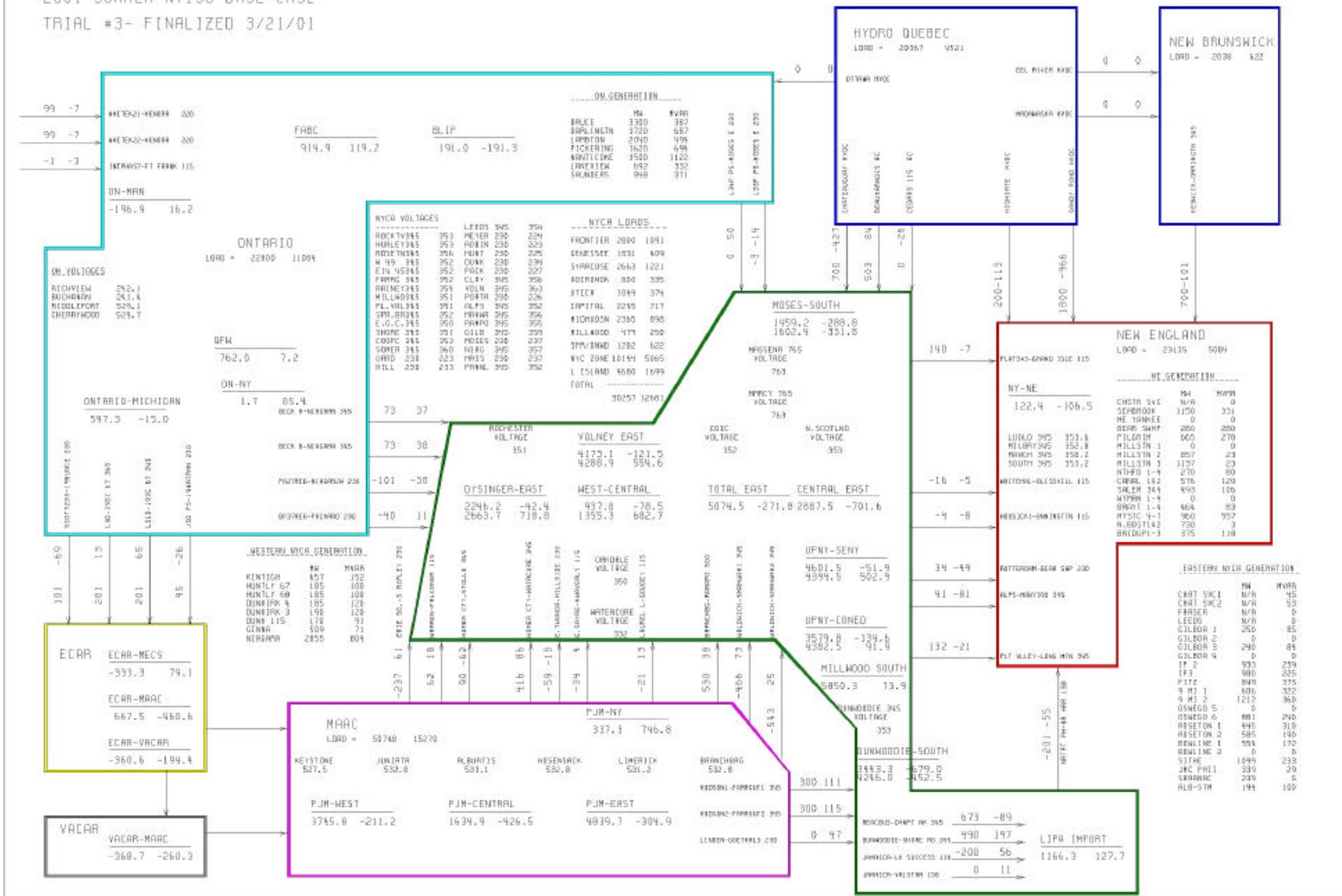


## INDEX

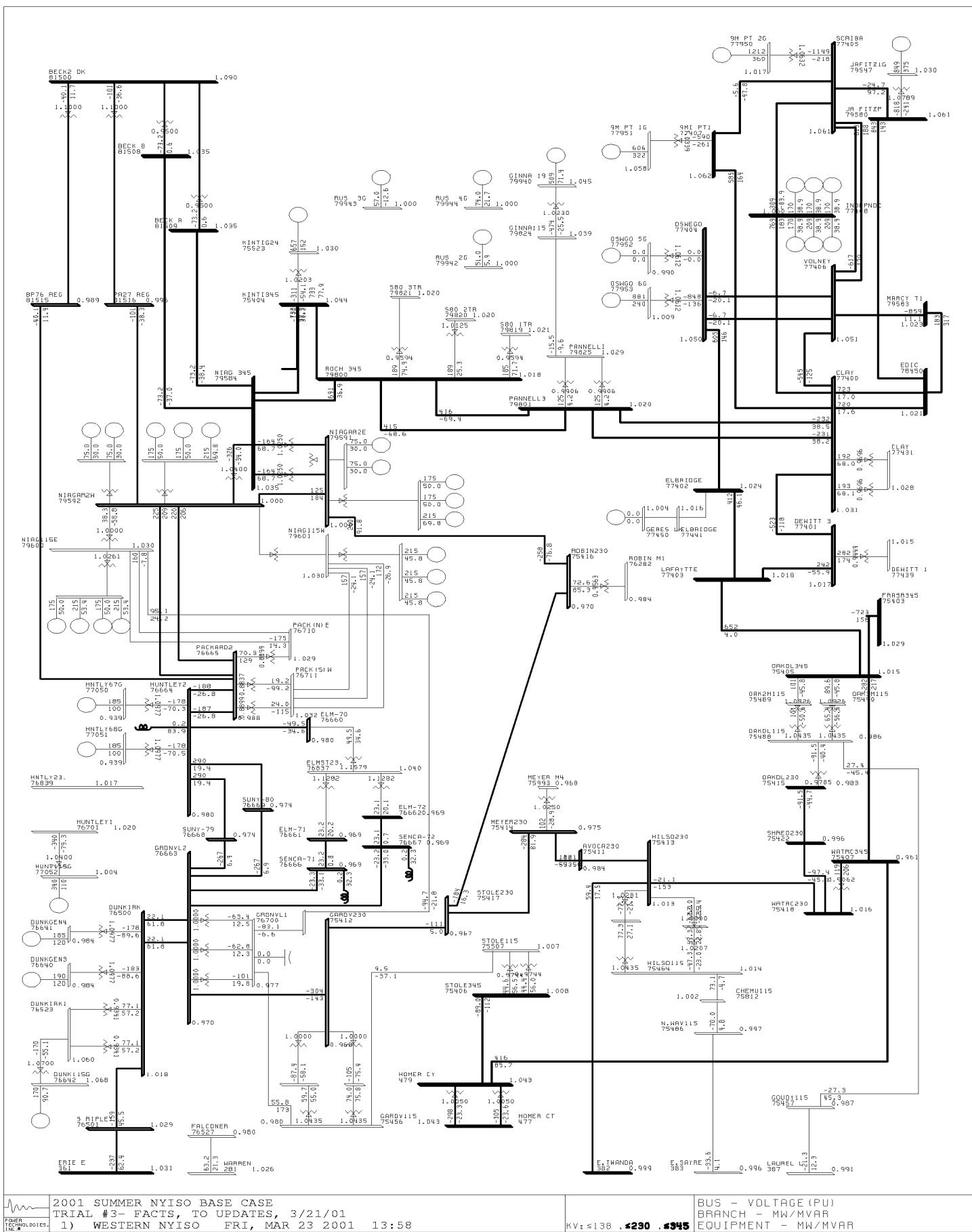
<b>System Overview</b>	.....	<b>C-3</b>
<b>Western NYISO</b>	.....	<b>C-4</b>
<b>Eastern NYISO</b>	.....	<b>C-5</b>
<b>Southern NYISO</b>	.....	<b>C-6</b>
<b>Central Hudson</b>	.....	<b>C-7</b>
<b>Consolidated Edison</b>	.....	<b>C-8</b>
<b>LIPA</b>	.....	<b>C-9,10</b>
<b>NYSEG</b>	.....	<b>C-11,12</b>
<b>NMPC</b>	.....	<b>C-13-18</b>
<b>Orange &amp; Rockland</b>	.....	<b>C-19</b>
<b>Rochester</b>	.....	<b>C-20</b>
<b>Beauharnois</b>	.....	<b>C-21</b>
<b>PJM</b>	.....	<b>C-22</b>
<b>PSE&amp;G</b>	.....	<b>C-23</b>
<b>UPNY-ConEdison</b>	.....	<b>C-24</b>



2001 SUMMER NYISO BASE CASE  
TRIAL #3- FINALIZED 3/21/01

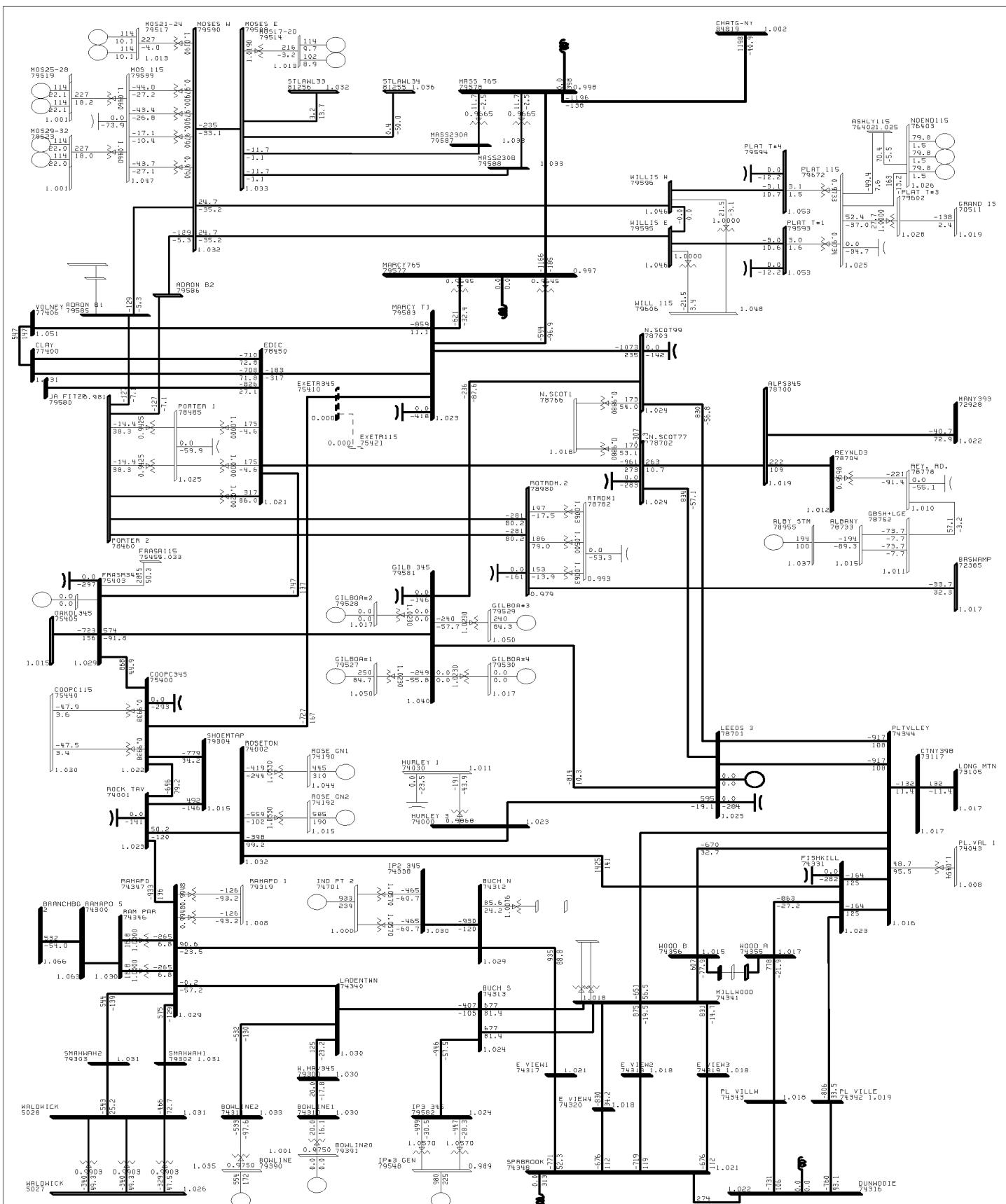


NYISO Operating Study  
Summer 2001



2001 SUMMER NYISO BASE CASE  
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1) WESTERN NYISO FRI, MAR 23 2001 13:58

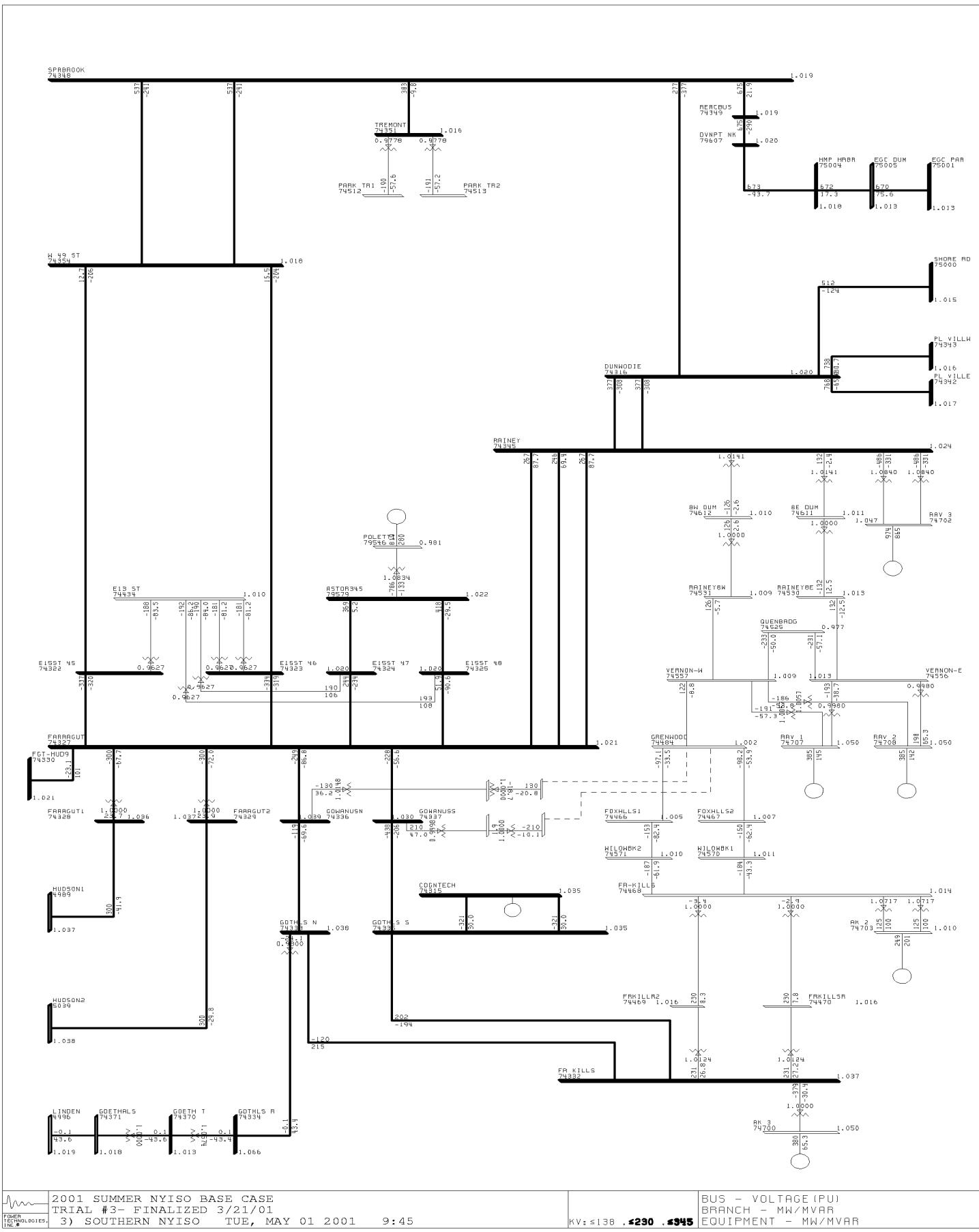
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
KV: ≤138 .#290 .#945  
EQUIPMENT - MW/MVAR



2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
2) EASTERN NYISO FRI, MAR 23 2001 13:58

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR  
KV: ≤ 138 .230 .345

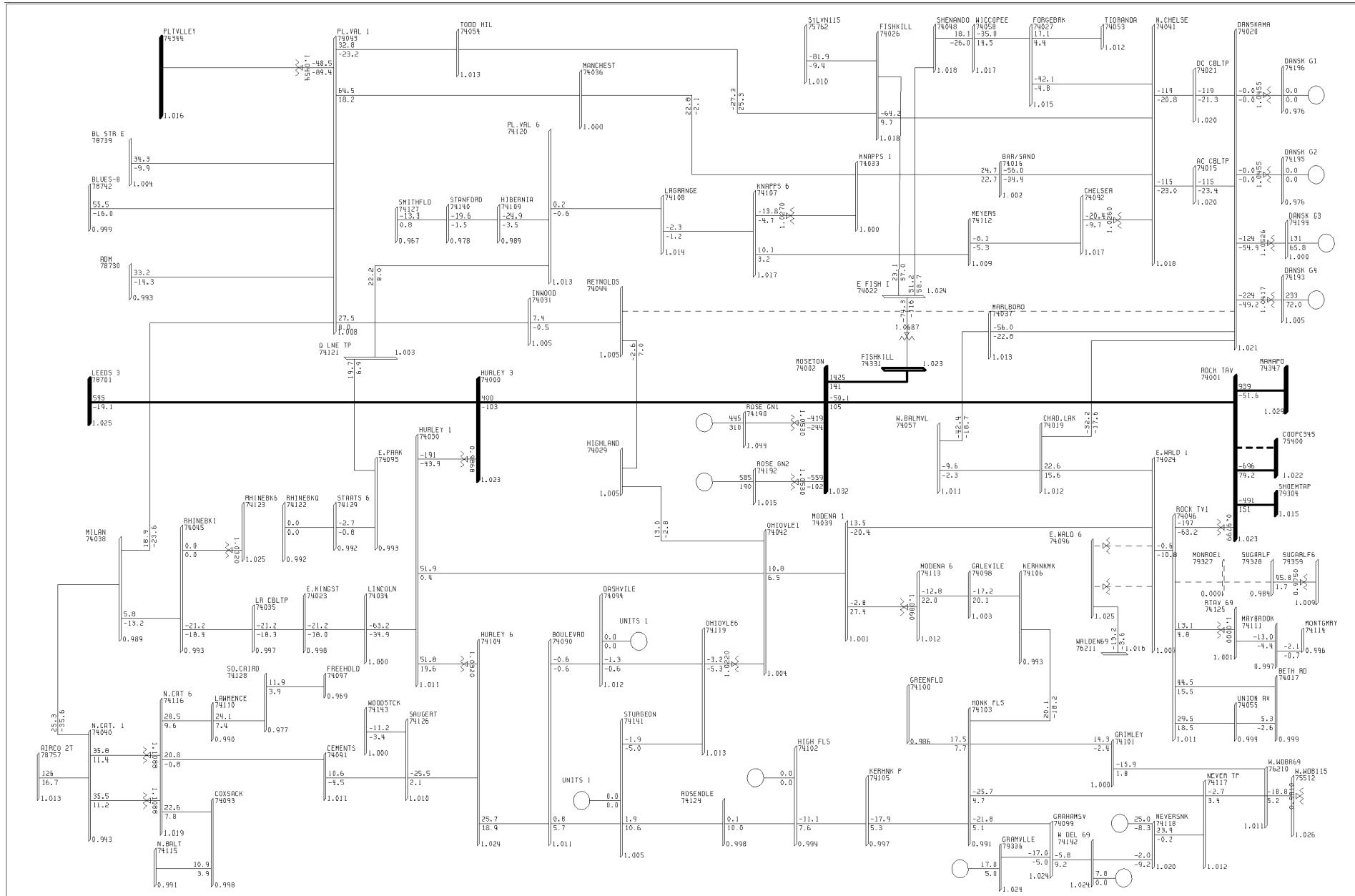
NYISO Operating Study  
Summer 2001



 2001 SUMMER NYISO BASE CASE  
POWER TECHNOLOGIES, INC. # TRIAL #3- FINALIZED 3/21/01  
3) SOUTHERN NYISO TUE, M

POWER  
TECHNOLOGIES,  
INC.®

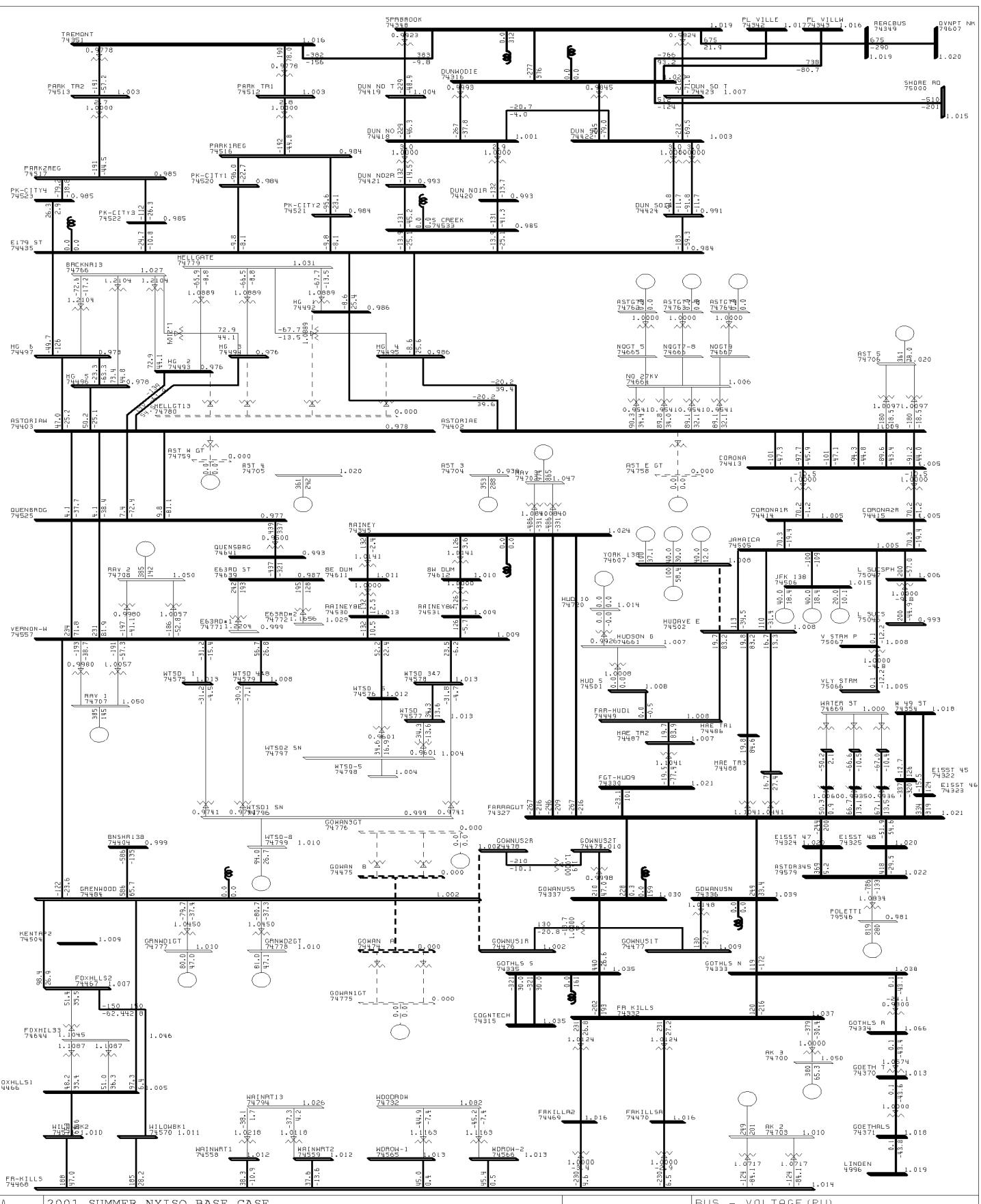
	BUS - VOLTAGE (PU)
KV: ≤138	BRANCH - MW/MVAR
≤230	EQUIPMENT - MW/MVAR
≤345	



 2001 SUMMER NYISO BASE CASE  
POWER TECHNOLOGIES, INC. TRIAL #3 - FACTS, TO UPDATES, 3/21/01  
4) CENTRAL HUDSON FRI, MAR 23 2001 13:58

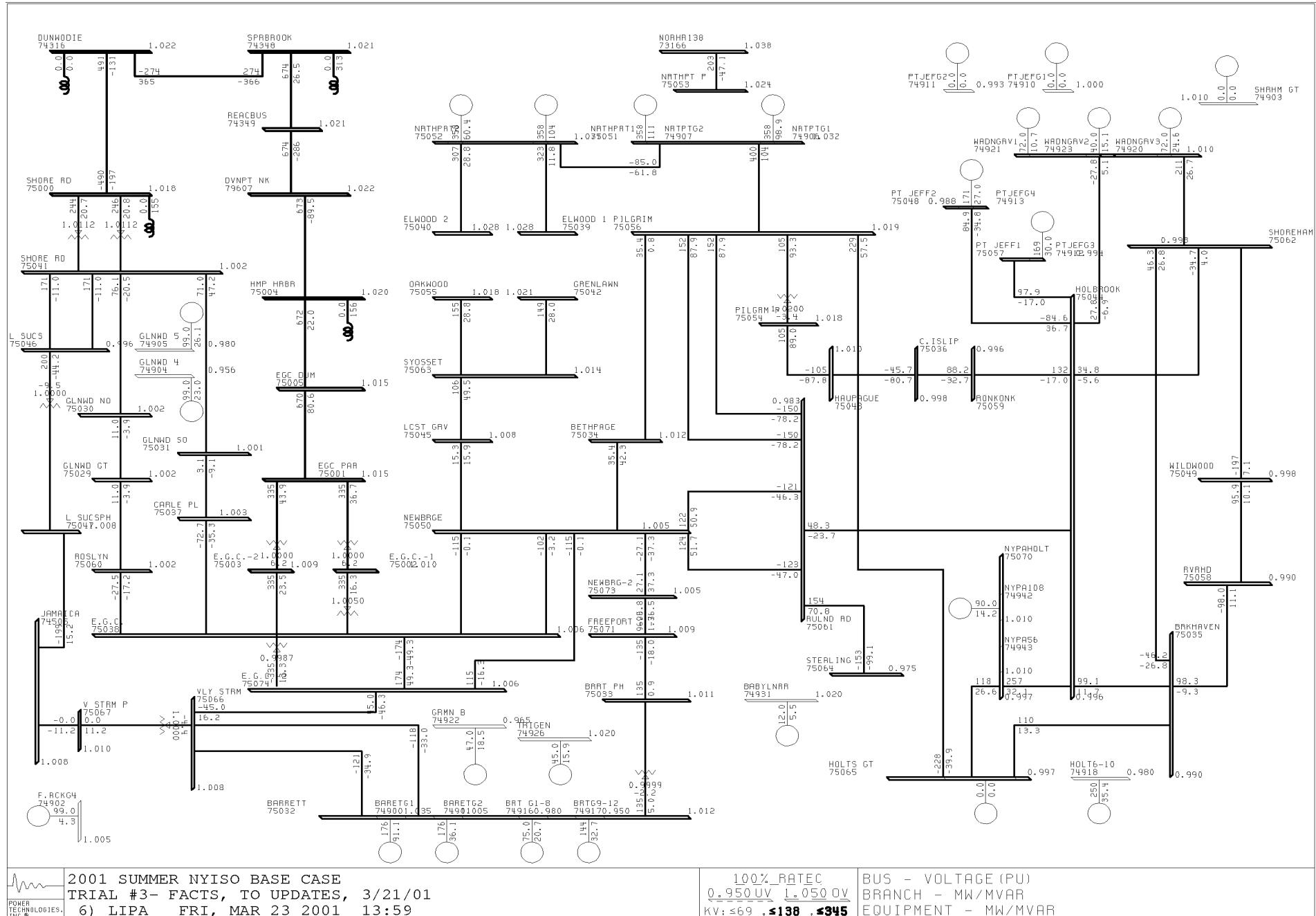
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
KV: ≤138   **\$230**   **\$345**   EQUIPMENT - MW/MVAR

NYISO Operating Study  
Summer 2001

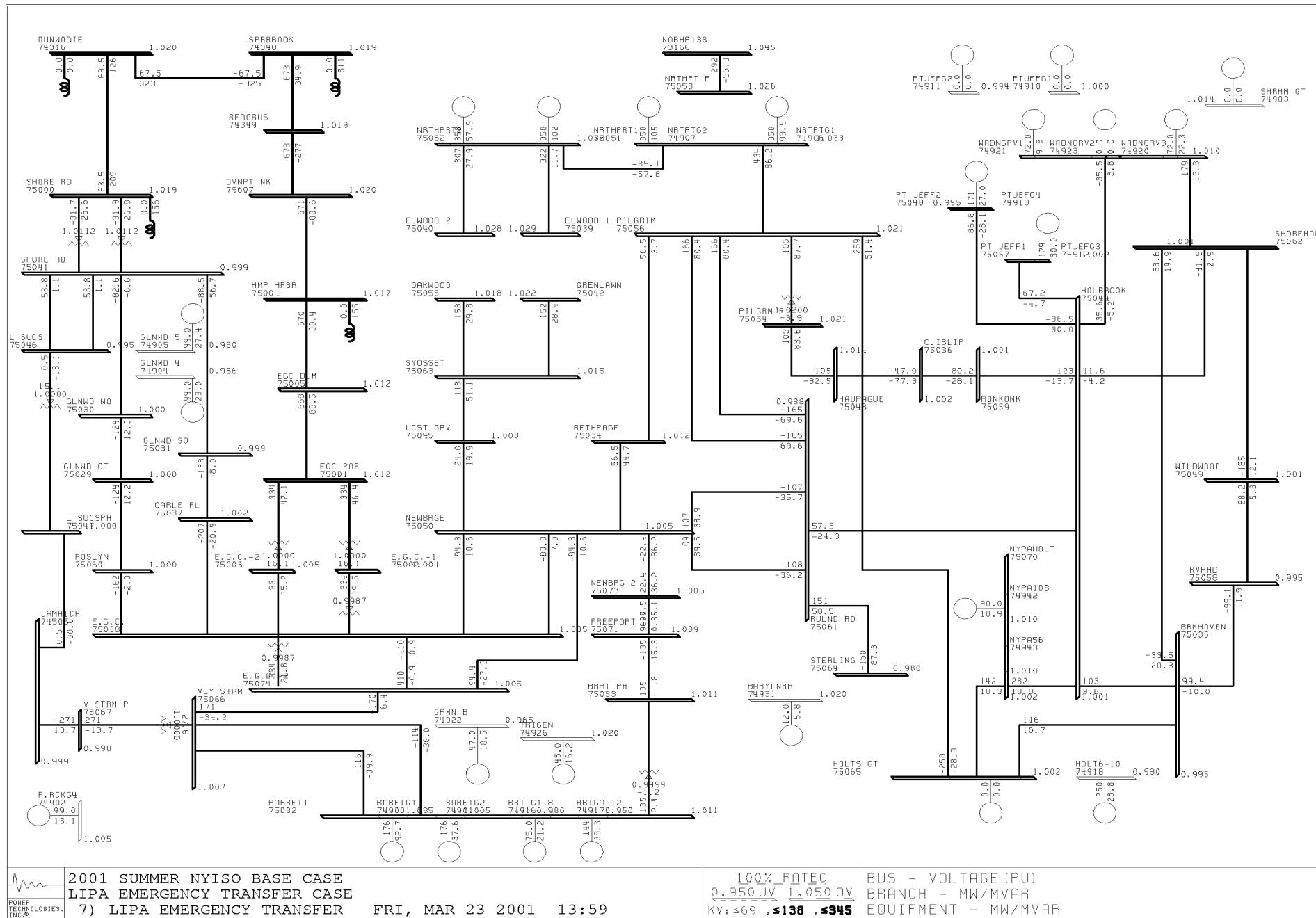


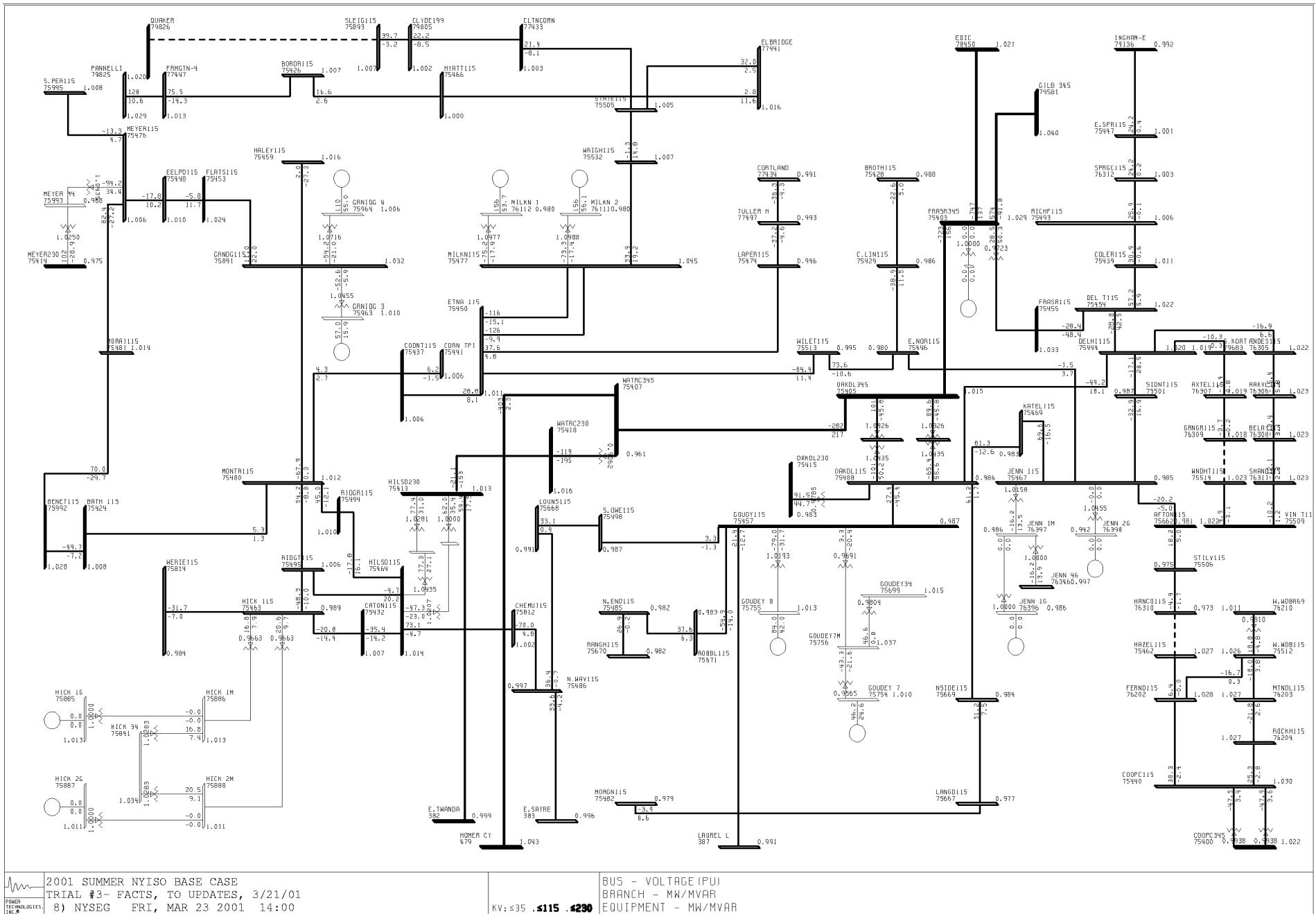
**POWER TECHNOLOGIES, INC.** 2001 SUMMER NYISO BASE CASE  
TRIAL #3 - FINALIZED 3/21/01  
5) CON EDISON TUE, MAY 01 2001 9:45

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR



NYISO Operating Study  
Summer 2001

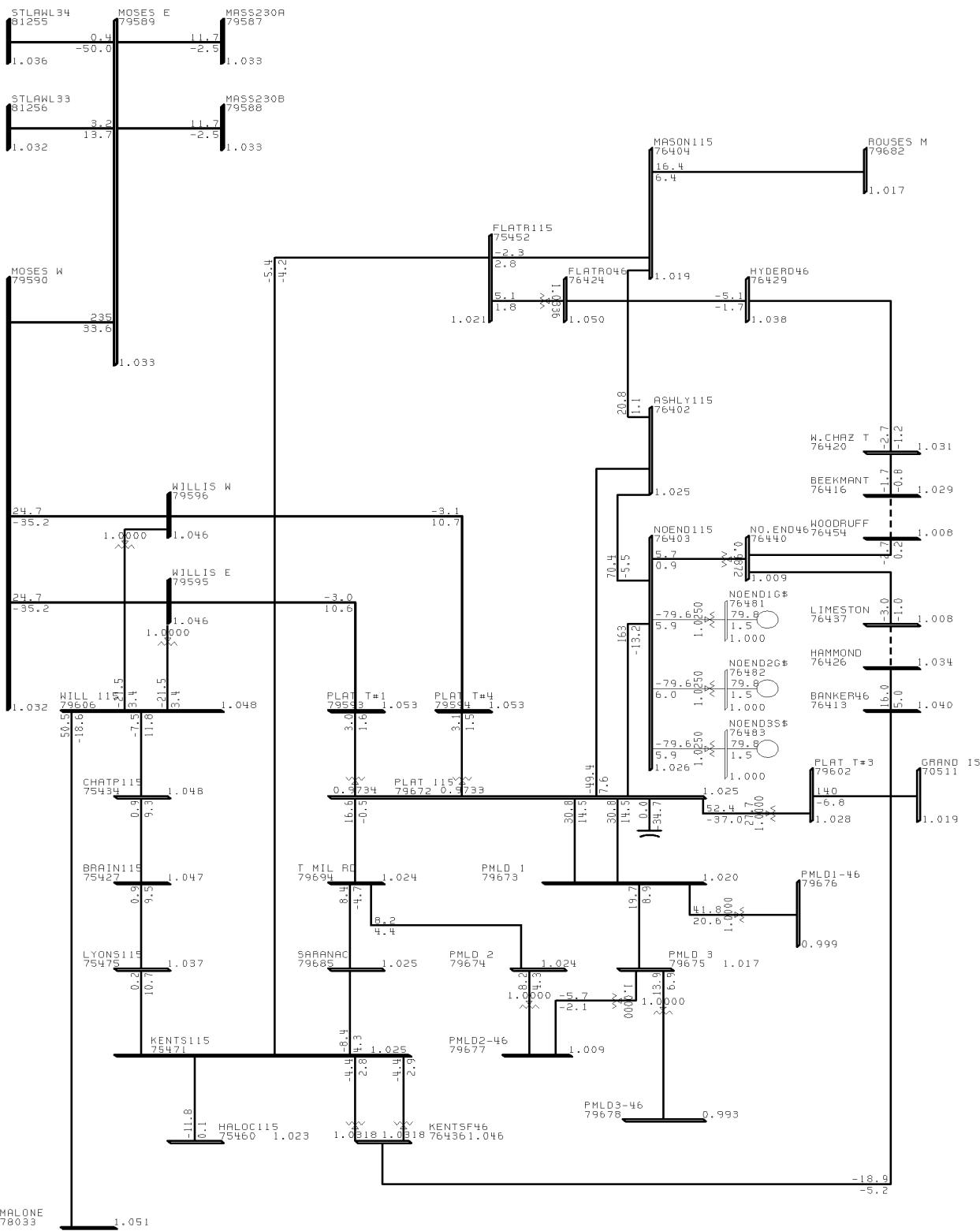




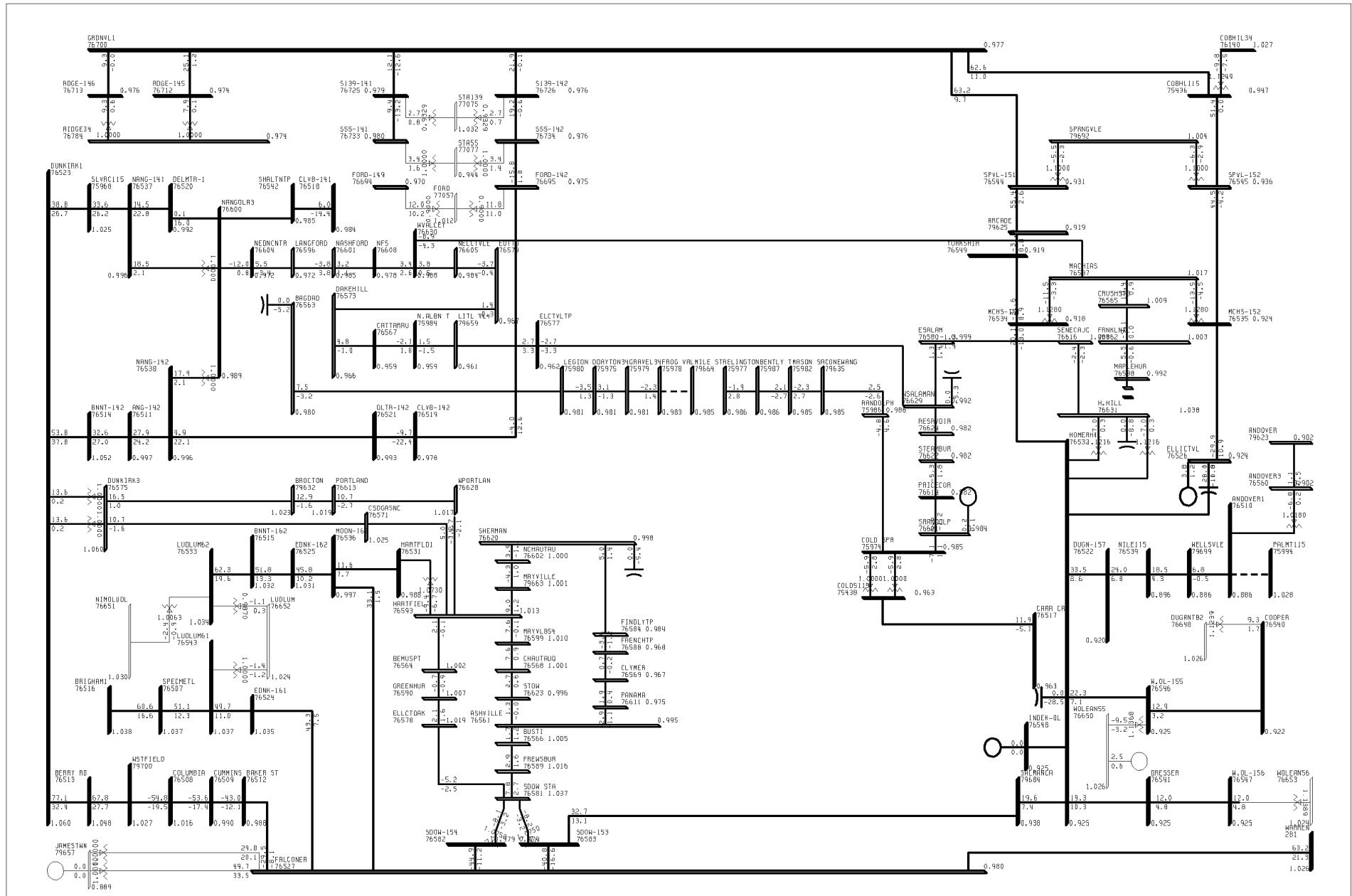
 2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
POWER TECHNOLOGIES, INC. 8) NYSEG FRI, MAR 23 2001 14:00

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR

NYISO Operating Study  
Summer 2001



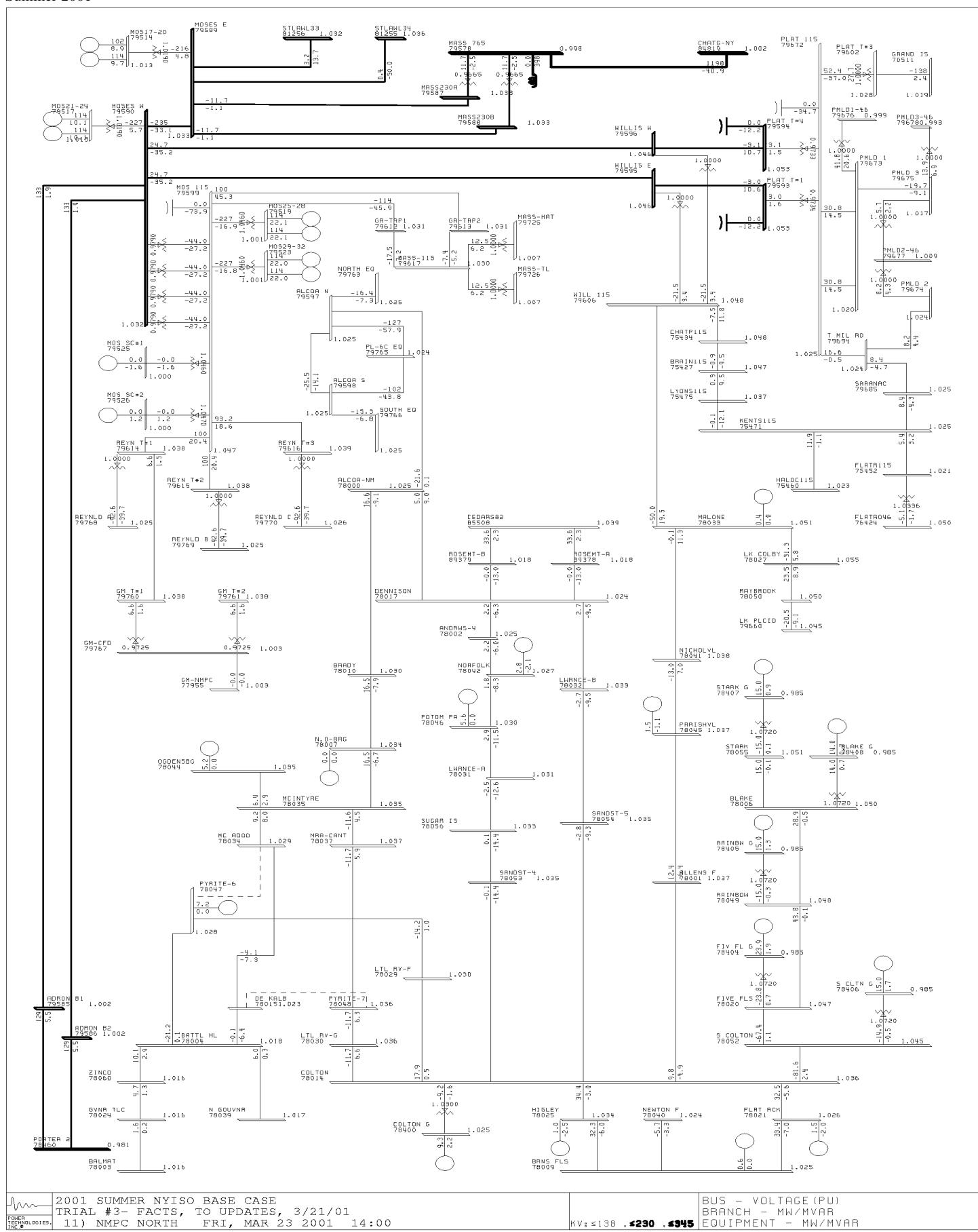
**2001 SUMMER NYISO BASE CASE  
TRIAL #3 FACTS, TO UPDATES, 3/21/01**  
**9) NYSEG PLATTSBG FRI, MAR 23 2001 14:00**



2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
ies. 10) NMPC SOUTHWEST FRI, MAR 23 2001 14:00

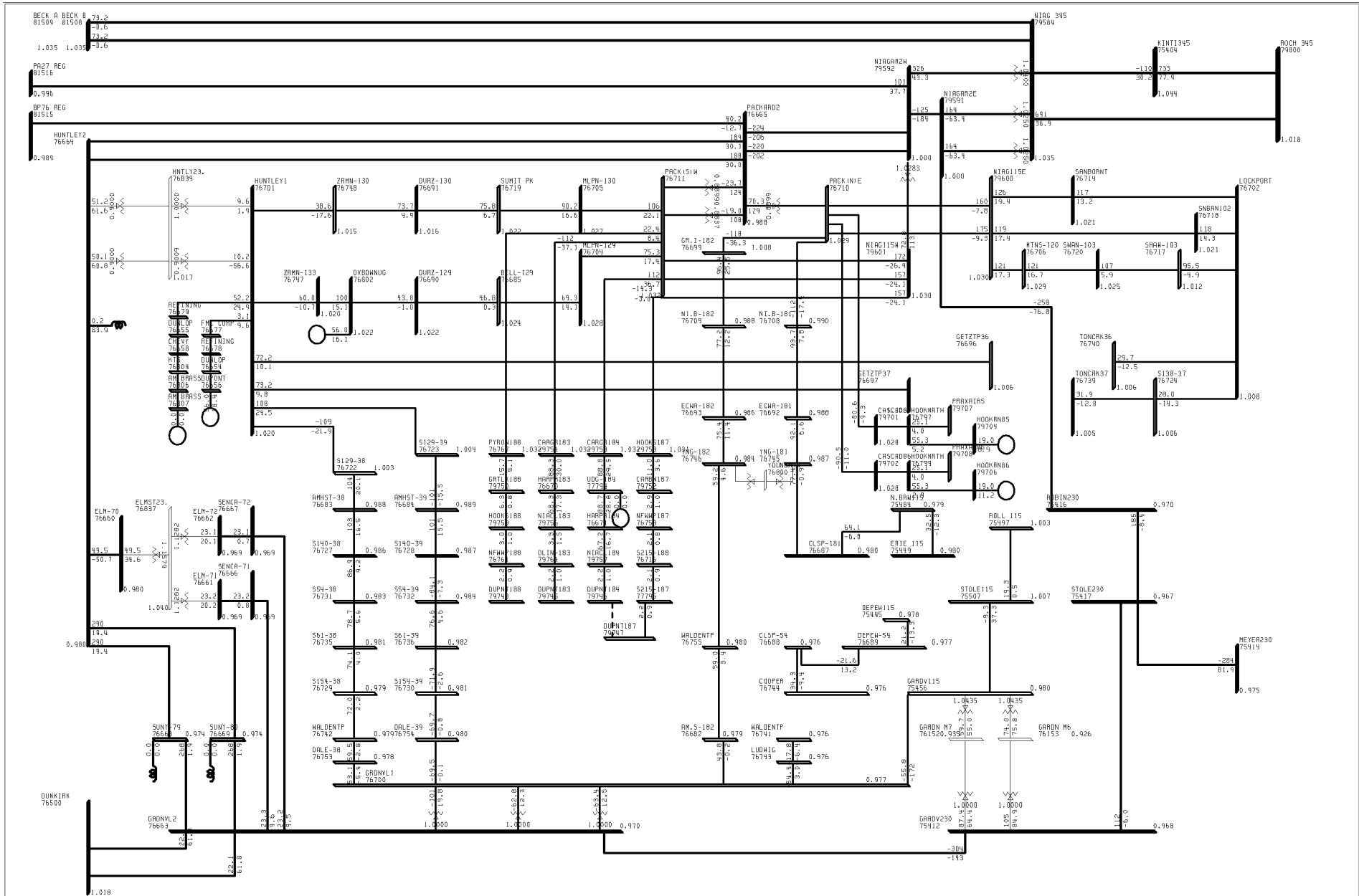
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR

NYISO Operating Study  
Summer 2001



 2001 SUMMER NYISO BASE CASE  
POWER TECHNOLOGIES, INC. 3 TRIAL #3- FACTS, TO UPDATES, 3/21/01  
11) NMPC NORTH FRI, MAR 23 2001 14:00

**KV: ≤138 .~~230~~ .~~345~~ BUS - VOLTAGE (PU)  
EQUIPMENT - MW/MVAR  
BRANCH - MW/MVAR**

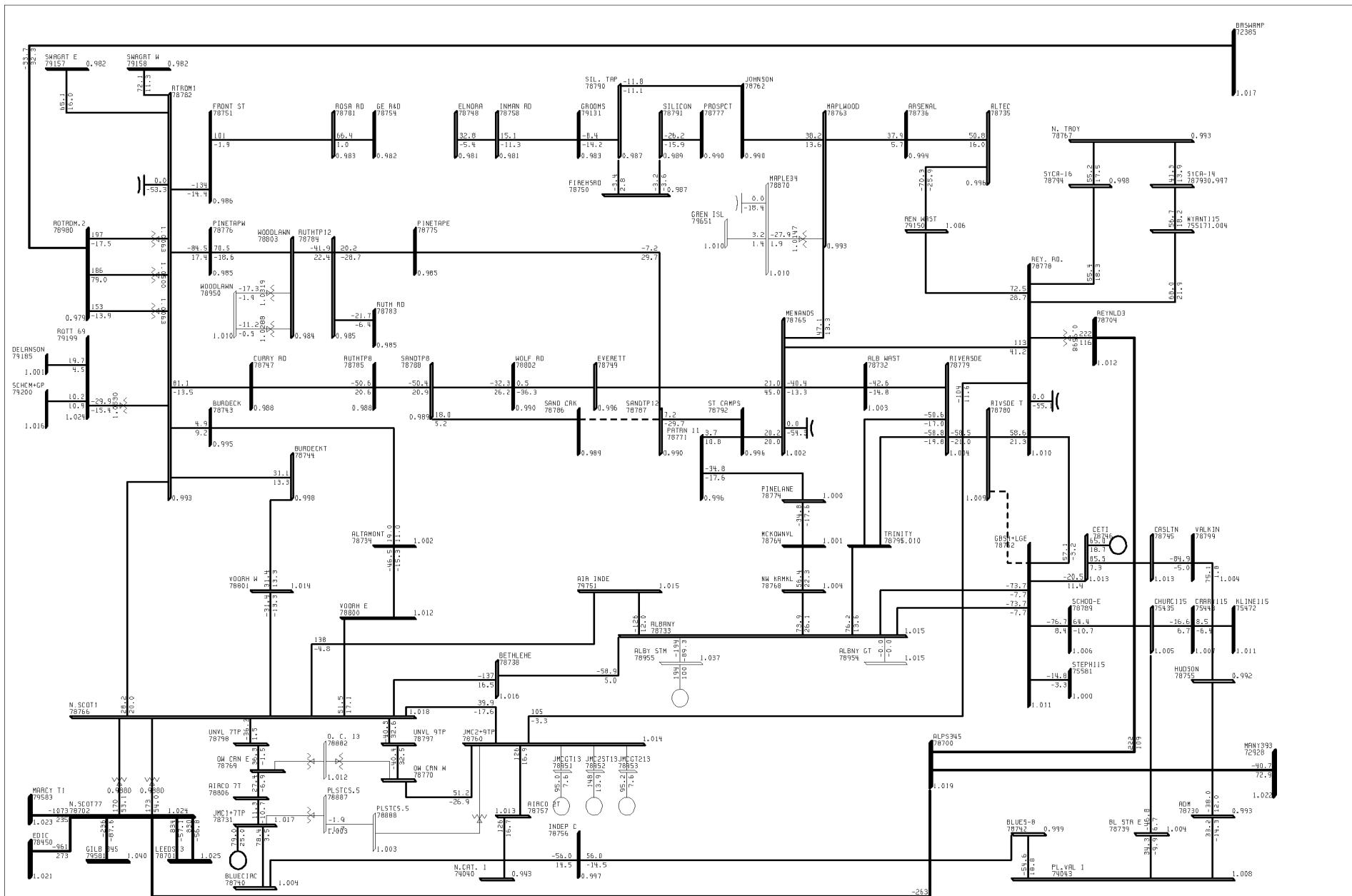


2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
12) NMPC BUFFALO FRI, MAR 23 2001 14:00

KV: 35 .**\$115** .**4230**

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR

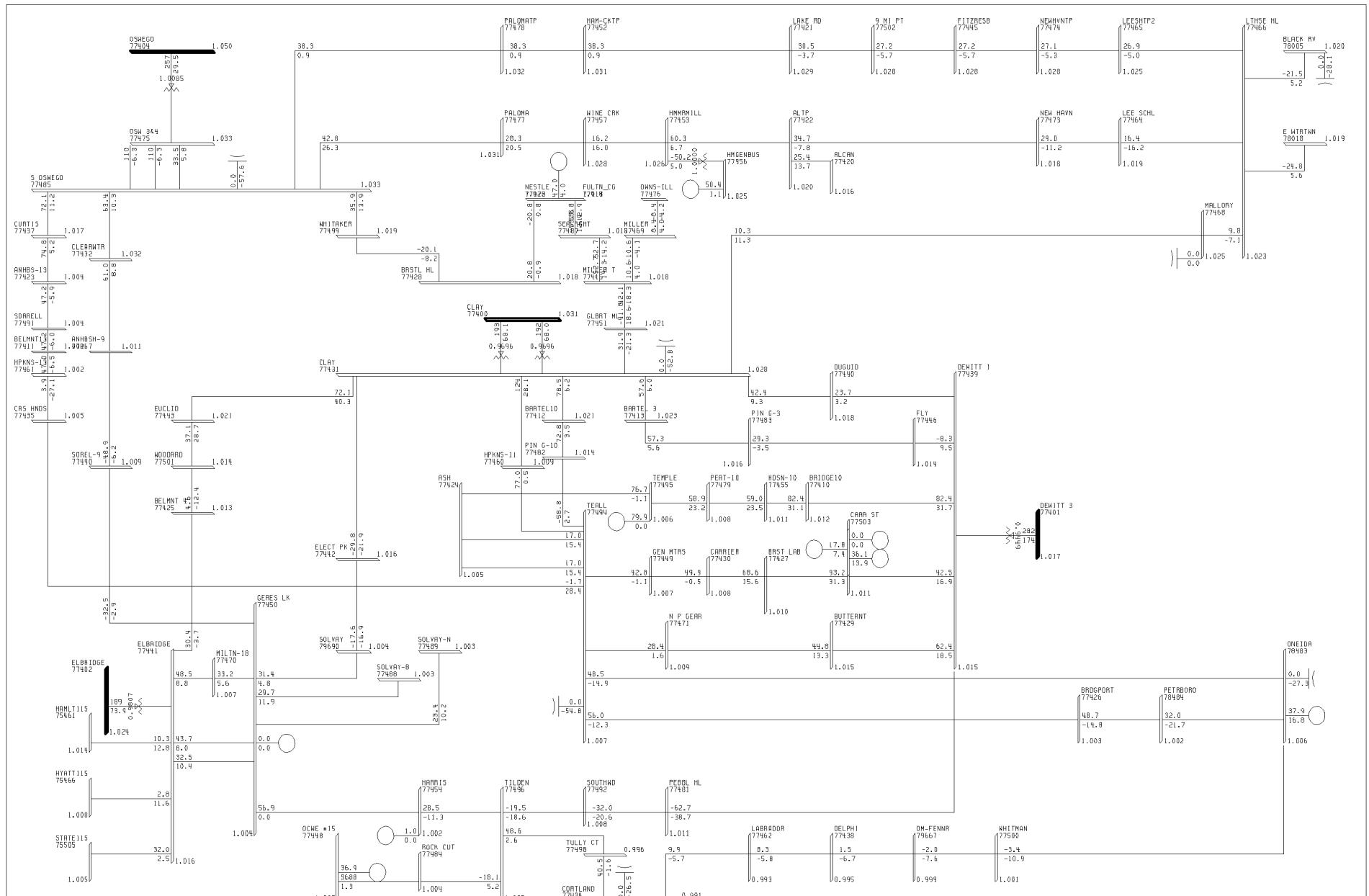
NYISO Operating Study  
Summer 2001



2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
13) NMMI ALBANY FBI MAR 22 2001

1

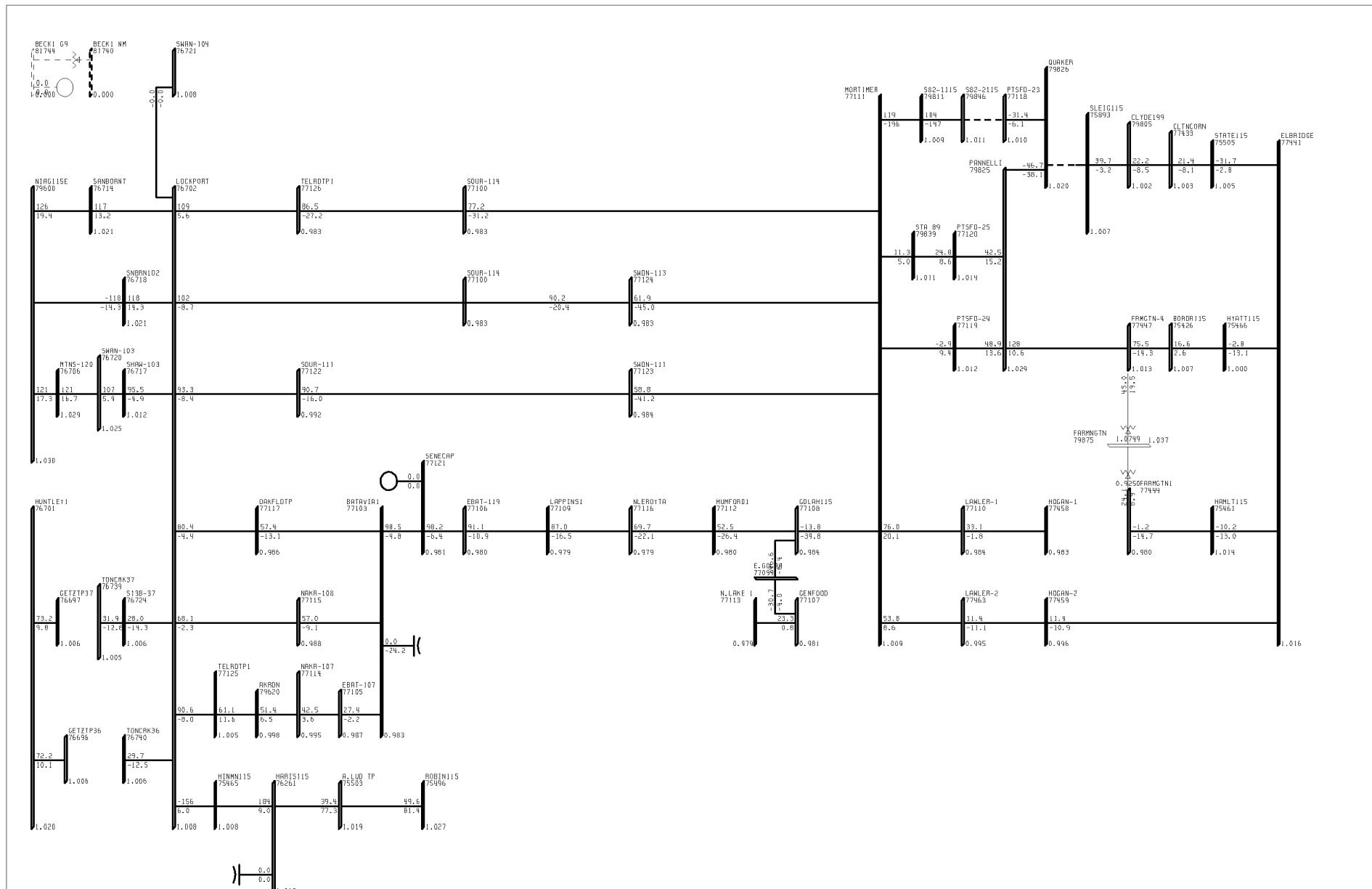
BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVA



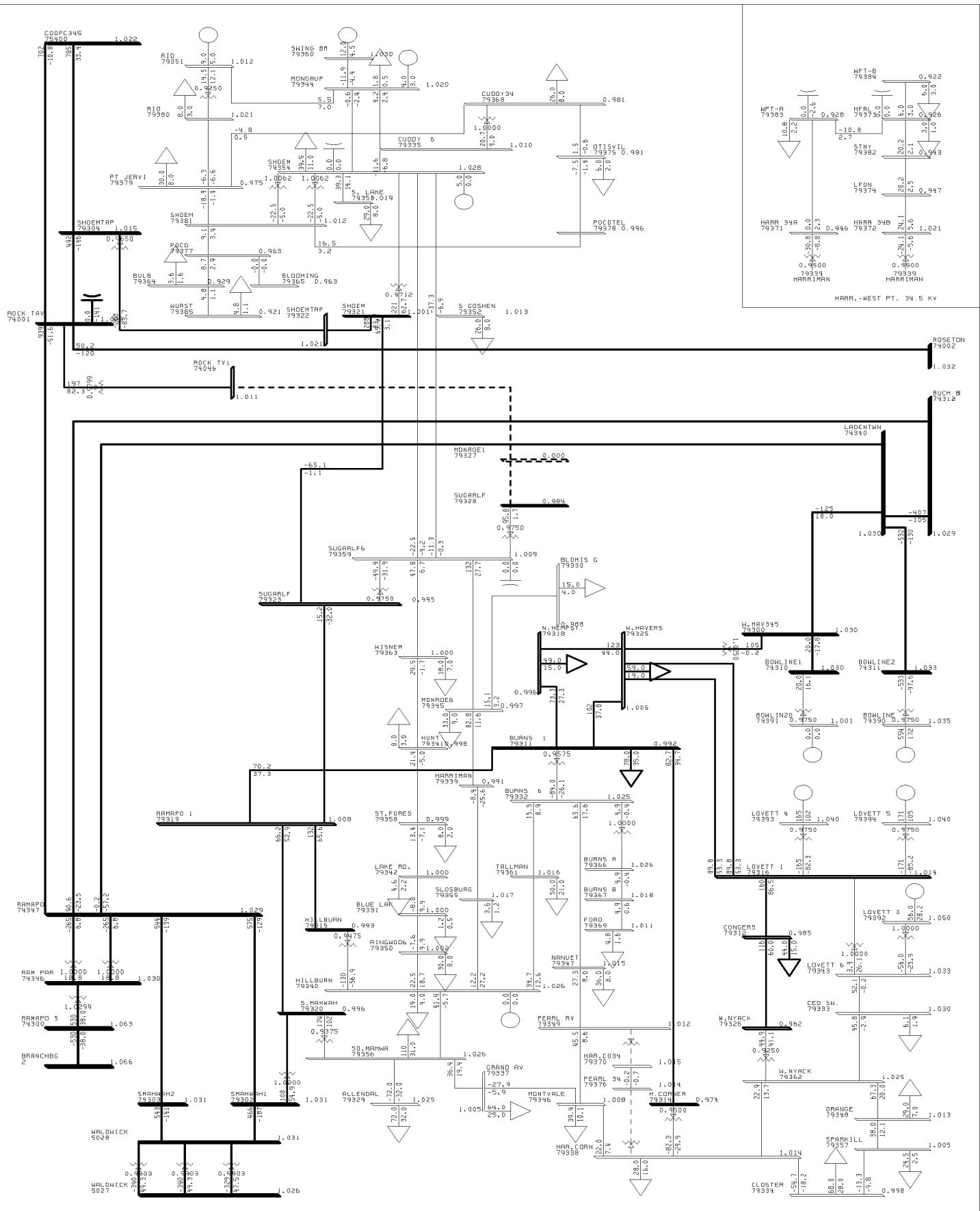
	2001 SUMMER NYISO BASE CASE TRIAL #3 - FACTS, TO UPDATES, 3/21/01 14) NMPC SYRACUSE FRI, MAR 23 2001 14:00
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	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
	KV: ≤138 . <b>\$230</b> . <b>\$345</b>

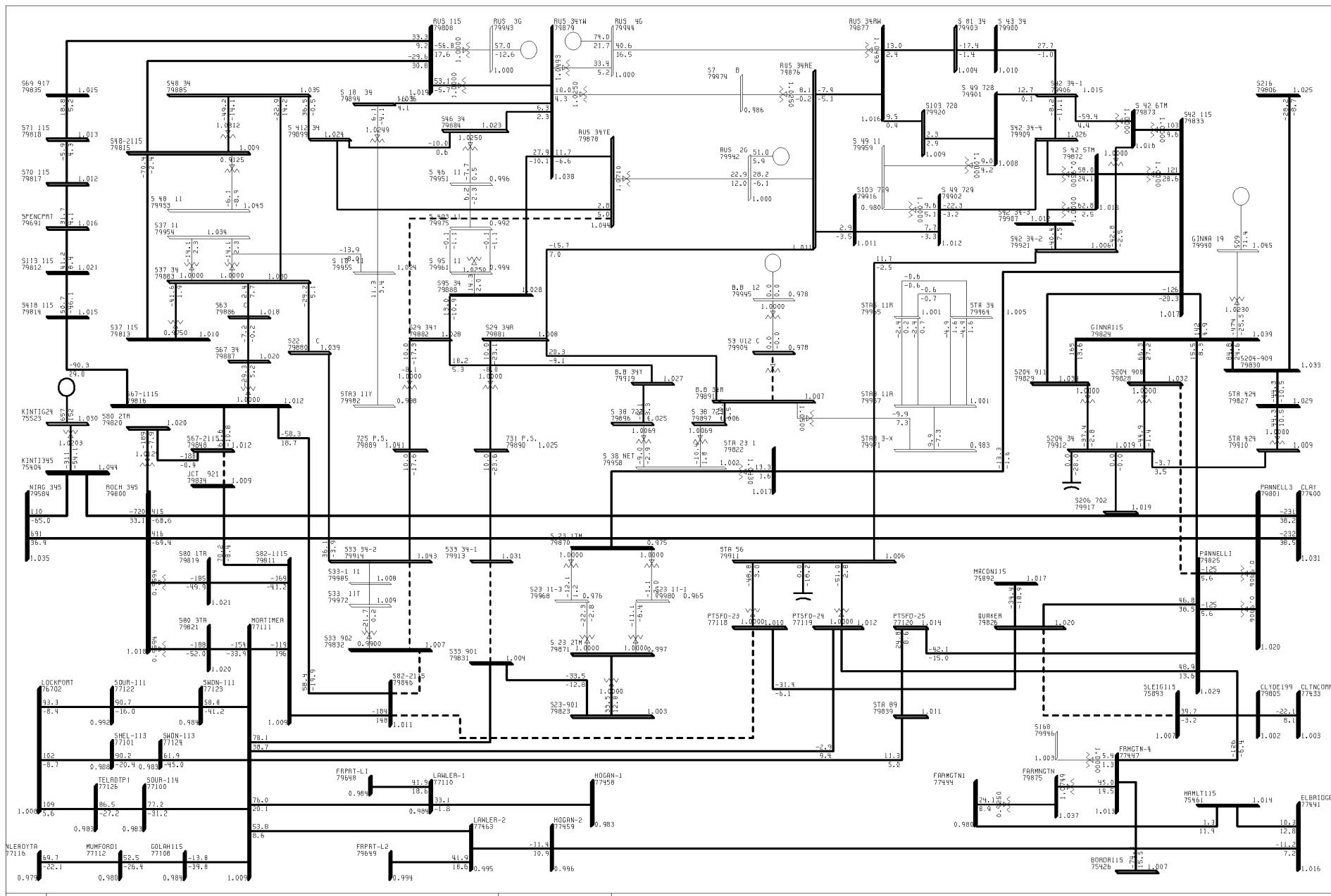
NYISO Operating Study  
Summer 2001



	2001 SUMMER NYISO BASE CASE TRIAL #3- FACTS, TO UPDATES, 3/21/01 15) NMPC LOCKPORT 115 FRI, MAR 23 2001 14:00	BUS - VOLTAGE (PU) BRANCH - MW/MVAR EQUIPMENT - MW/MVAR
POWER TECHNOLOGIES, INC.	KV: <69 . <b>138</b> . <b>395</b>	



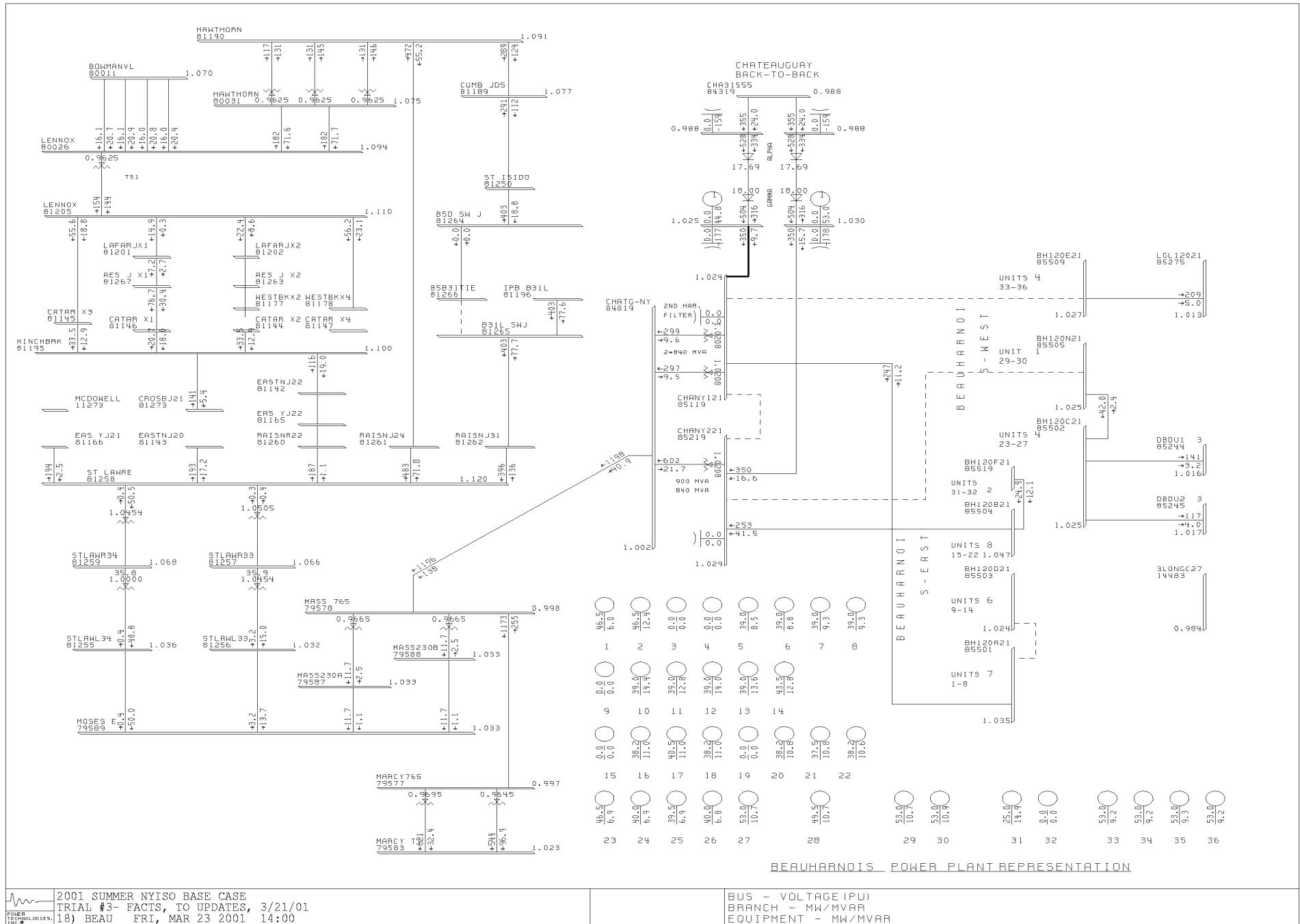
NYISO Operating Study  
Summer 2001

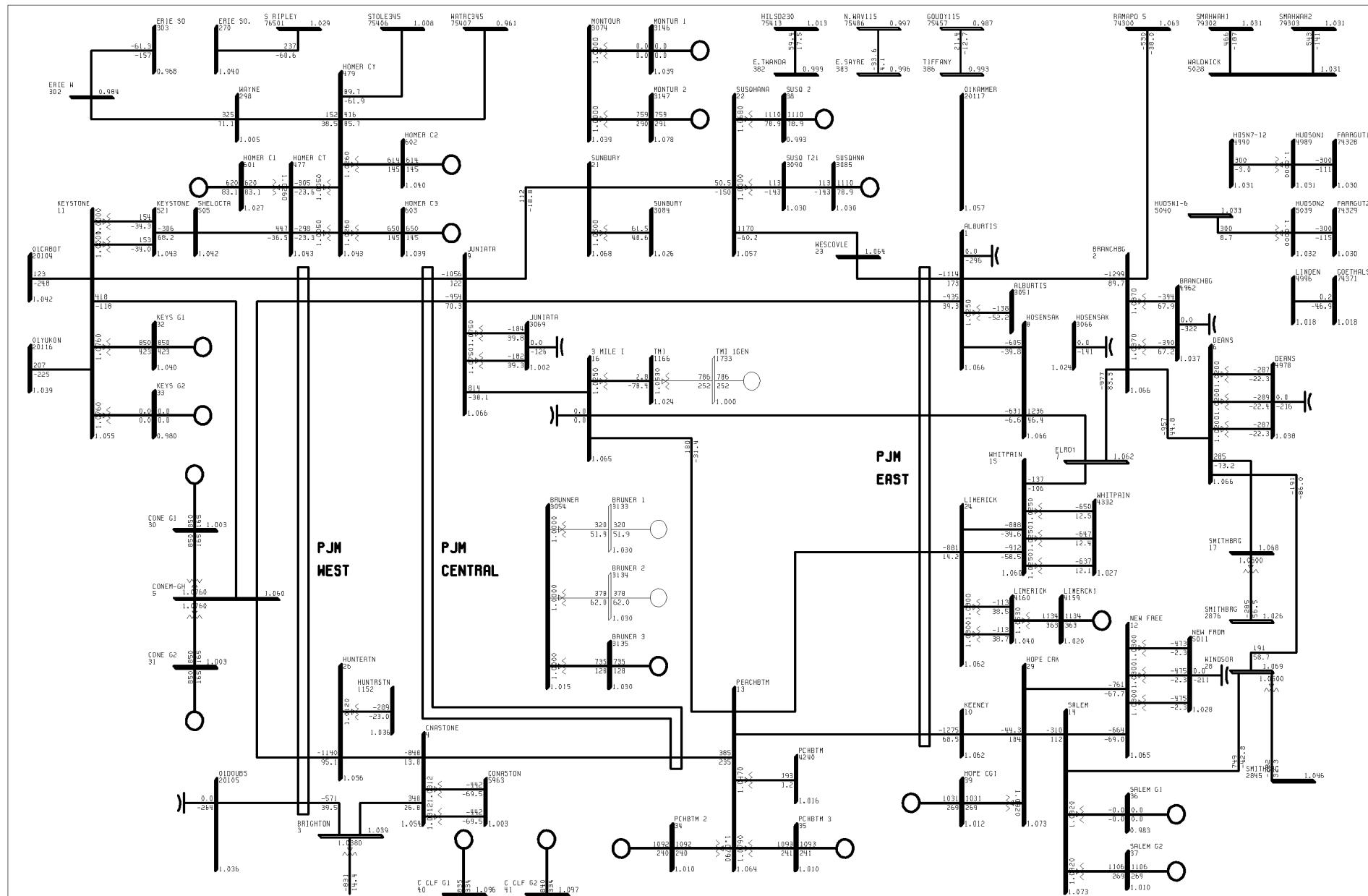


2001 SUMMER NYISO BASE CASE  
TRIAL #3 - FACTS, TO UPDATES, 3/21/01  
17) ROCHESTER ERI, MAR 23 2001 14:00

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR

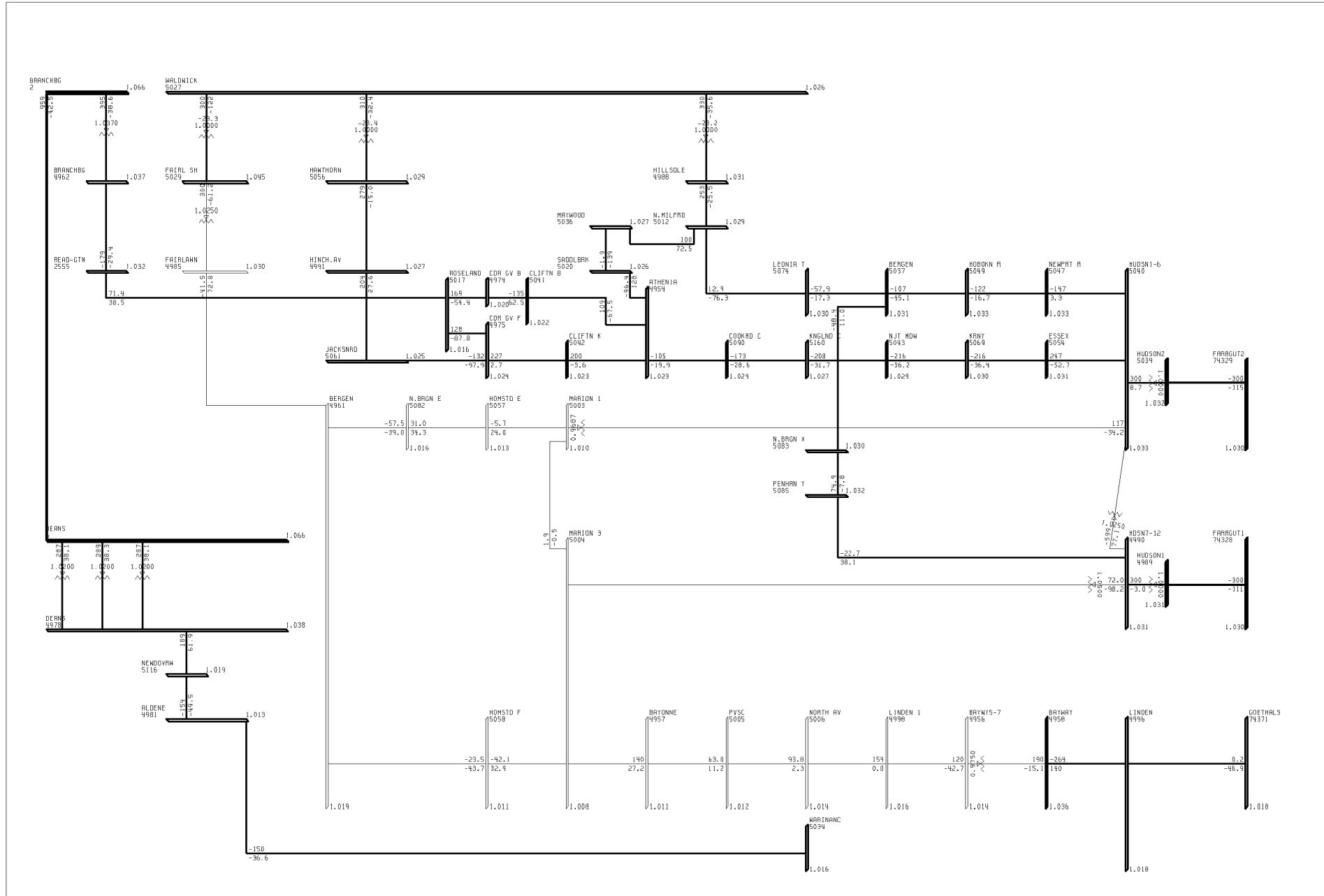
KV: ≤20 .335 .415





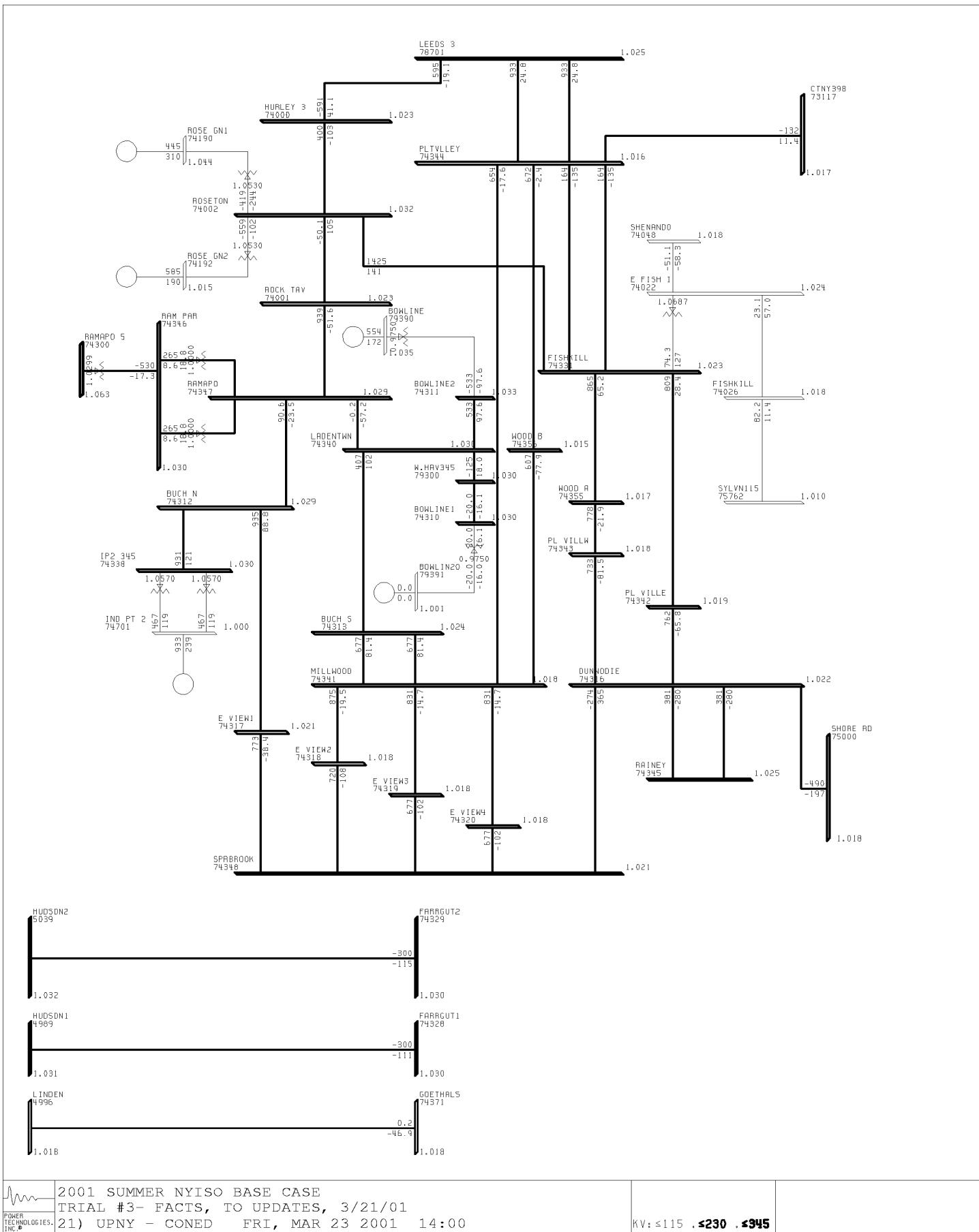
POWER TECHNOLOGIES INC.  
19) PJM FRI, MAR 23 2001 14:00

2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
KV: <=20 .595 .5115



2001 SUMMER NYISO BASE CASE  
TRIAL #3- FACTS, TO UPDATES, 3/21/01  
20) PSE&G FRI, MAR 23 2001 14:00

BUS - VOLTAGE (PU)  
BRANCH - MW/MVAR  
EQUIPMENT - MW/MVAR  
KV: ≤138 . \$230 . \$345



2001 SUMMER NYISO BASE CASE	TRIAL #3 - FACTS, TO UPDATES, 3/21/01
POWER TECHNOLOGIES INC.	21) UPPNY - CONED FRI, MAR 23 2001 14:00
	KV: ≤115 . \$230 . \$345

**APPENDIX D**  
**RATINGS OF MAJOR TRANSMISSION FACILITIES**  
**IN NEW YORK**



NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
8E DUM - RAINES	36311	215	302	348	358	25296
8W DUM - RAINES	36312	215	305	358	359	25297
9M PT 2G - SCRIBA	23	1670	1931	2211	981	70513
9MI PT1 - CLAY	8	1032	1271	1562	839	25167
9MI PT1 - SCRIBA	9	994	1109	1271	980	25359
ADRON B1 - MOSES W	MA-1	348	359	440	782	25269
ADRON B1 - PORTER 2	AP11	321	353	449	783	25051
ADRON B2 - MOSES W	MA-2	348	386	440	784	25270
ADRON B2 - PORTER 2	AP12	321	353	449	785	25082
ALCOA N - ALCOA-NM	R8105	206	247	310	786	25202
ALCOA N - GR-TAP1	MAL-6	218	253	291	792	25582
ALCOA-NM - ALCOA N	R8105	206	247	310	786	25202
ALCOA-NM - BRADY	13	128	147	159	787	25230
ALCOA-NM - DENNISON	12	166	191	210	788	25227
ALPS345 - N.SCOT77	2	1204	1326	1589	993	25217
ALPS345 - REYNLD	31	459	562	755	994	25587
AMWLK115 - WOODS115	996	215	247	275	327	25574
ANDOVER1 - PALMT115	932	78	85	98	615	25094
ANDRWS-4 - DENNISON	5	182	197	248	861	25226
ASTOR345 - E15ST 47	Q35L	538	621	1476	139	25134
ASTOR345 - E15ST 48	Q35M	538	621	1476	140	25142
ASTORIAE - CORONA	34186	154	239	387	133	25282
ASTORIAE - CORONA	34185	154	239	387	132	25281
ASTORIAE - CORONA	34184	154	239	387	131	25280
ASTORIAE - CORONA	34183	154	239	387	130	25279
ASTORIAE - CORONA	34182	154	239	387	129	25278
ASTORIAE - HG 1	34052	161	245	393	134	25324
ASTORIAE - HG 4	34051	161	245	393	135	25323
ASTORIAW - HG 2	24054	140	186	186	146	25213
ASTORIAW - HG 3	24053	140	186	186	147	25212
ASTORIAW - HG 5	24051	177	249	480	148	25210
ASTORIAW - HG 6	24052	177	249	480	149	25211
ASTORIAW - QUENBRDG	28244	308	478	645	153	25318
ASTORIAW - QUENBRDG	28243	308	478	645	152	25317
ASTORIAW - QUENBRDG	28241	154	239	387	151	25315
ASTORIAW - QUENBRDG	28242	154	239	387	150	25316
BARRETT - BRRT PH	461	169	259	297	7	25155
BARRETT - VLY STRM	291	233	289	364	9	25312
BARRETT - VLY STRM	292	233	289	364	10	25313
BATAVIA1 - EBAT-107	107	119	128	152	636	25124
BATAVIA1 - NAKR-108	108	130	136	159	647	25125
BATAVIA1 - OAKFLDTP	112	128	136	159	446	25126
BECK A - NIAG 345	PA302	1070	1322	1714	759	25041
BECK B - NIAG 345	PA301	1070	1322	1714	758	25040
BELL-129 - DURZ-129	129	168	185	199	765	69854
BELL-129 - MLPN-129	129	168	185	199	765	69854
BENET115 - MORAI115	966	124	139	159	503	68439
BLACK RV - LTHSE HL	6	106	114	134	805	25506
BORDR115 - FRMGTN-4	977/4	150	179	195	507	25057

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
BORDR115 - HYATT115	979	129	148	160	506	25106
BOWLINE1 - W.HAV345	67	687	747	747	164	25567
BOWLINE2 - LADENTWN	68	687	747	747	166	25249
BP76 REG - PACKARD2	BP76	478	492	569	763	25024
BRADY - ALCOA-NM	9	159	159	159	820	25230
BRANCHBG - RAMAPO 5	5018	999	1303	1751	366	25019
BRDGPORT - PETRBORO	5	116	120	145	940	25896
BRDGPORT - TEALL	5	116	120	145	940	25896
BRKHAVEN - HOLBROOK	887	390	435	498	11	25340
BRKHAVEN - RVRHD	864	250	288	322	14	25553
BRKHAVEN - SHOREHAM	861	433	480	586	16	25114
BRRT PH - BARRETT	461	169	259	297	7	25155
BUCH N - E VIEW1	W93	1720	1890	2401	175	25133
BUCH N - RAMAPO	Y94	1703	1890	2401	178	25184
BUCH S - LADENTWN	Y88	1703	1890	2401	180	25185
BUCH S - MILLWOOD	W98	1493	1680	1902	182	25146
BUCH S - MILLWOOD	W97	1493	1680	1902	181	25247
BURNS 1 - W.HAVERS	530/531	224	260	274	473	68644
CARLE PL - E.G.C.	361	250	288	322	18	25533
CARLE PL - GLNWD SO	363	291	321	372	19	25554
CARML115 - UNION115	991/992	215	247	270	190	68885
CATON115 - HICK 115	958/960	102	113	120	574	69341
CHATG-NY - MASS 765	MSC7040	3975	3975	5300	825	25301
CHEMU115 - N.WAV115	962	112	131	143	577	25726
CLAY - 9MI PT1	8	1032	1271	1562	839	25167
CLAY - CLAY	BK#1	308	367	405	826	25387
CLAY - CLAY	BK#2	308	367	405	827	25421
CLAY - DEWITT 3	13	1032	1284	1434	835	25168
CLAY - DUGUID	5	193	213	240	829	25519
CLAY - EDIC	CE 2-15	1032	1284	1434	837	25200
CLAY - EDIC	CE 1-16	1032	1284	1434	836	25169
CLAY - HPKNS-11	11	220	239	239	831	25516
CLAY - PANNELL3	PC-2	1032	1284	1434	768	25050
CLAY - PANNELL3	PC-1	1032	1284	1434	769	25058
CLAY - VOLNEY	6	1032	1284	1434	838	25198
CLINTON - MARSH115	11/12	125	143	154	1012	68794
CLTNCORN - CLYDE199	971/3	108	128	145	510	25063
CLTNCORN - STATE115	971/3	108	128	145	510	25063
CLYDE199 - CLTNCORN	971/3	108	128	145	510	25063
CODNT115 - ETNA 115	998	227	253	283	515	25734
CODNT115 - MONTR115	982	108	128	144	516	25728
COFFEEN - E WTRTWN	5	116	119	119	840	25504
COOPC115 - COOPC345	#2	212	266	300	519	25433
COOPC115 - COOPC345	#3	232	296	300	520	25434
COOPC345 - COOPC115	#2	212	266	300	519	25433
COOPC345 - COOPC115	#3	232	296	300	520	25434
COOPC345 - FRASR345	FCC-33	1207	1404	1703	521	25236
COOPC345 - MARCY T1	UCC2-41	1345	1345	1345	2803	25113
COOPC345 - ROCK TAV	CRT-34	1464	1793	1793	2800	25110

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
COOPC345 - ROCK TAV	CRT-42	1554	1733	1793	2801	25111
CORONA - ASTORIAE	34186	154	239	387	133	25282
CORONA - ASTORIAE	34185	154	239	387	132	25281
CORONA - ASTORIAE	34184	154	239	387	131	25280
CORONA - ASTORIAE	34183	154	239	387	130	25279
CORONA - ASTORIAE	34182	154	239	387	129	25278
CORONA1R - JAMAICA	18001	161	245	393	185	25285
CORONA2R - JAMAICA	18002	161	245	393	186	25286
CORTLAND - LABRADOR	3	125	143	154	855	25894
CORTLAND - TULLER H	947	108	128	143	631	25059
CROTN115 - UNION115	991/992	215	247	270	190	68885
DELPHI - LABRADOR	3	125	143	154	855	25894
DENNISON - ALCOA-NM	12	166	191	210	788	25227
DENNISON - ANDRWS-4	5	182	197	248	861	25226
DENNISON - LWRNCE-B	4	182	197	248	796	25225
DEWITT 1 - DEWITT 3	2	516	657	796	862	25418
DEWITT 3 - CLAY	13	1032	1284	1434	835	25168
DEWITT 3 - DEWITT 1	2	516	657	796	862	25418
DEWITT 3 - LAFAYTTE	22	1434	1434	1434	866	25174
DUGUID - CLAY	5	193	213	240	829	25519
DUN NO - DUN SO	99997	226	317	342	194	25532
DUN NO - DUNWODIE	W74	352	484	578	195	25209
DUN NO1R - S CREEK	99031	129	188	290	197	25193
DUN NO2R - S CREEK	99032	129	188	290	198	25239
DUN SO - DUN NO	99997	226	317	342	194	25532
DUN SO - DUNWODIE	W73	352	484	578	202	25208
DUN SO1R - E179 ST	99153LM	223	314	396	203	25287
DUNKIRK - DUNKIRK1	41	139	177	226	657	25386
DUNKIRK - GRDNVL2	73	556	637	637	663	25166
DUNKIRK1 - DUNKIRK	31	138	173	223	656	25430
DUNWODIE - DUN NO	W74	352	484	578	195	25209
DUNWODIE - DUN SO	W73	352	484	578	202	25208
DUNWODIE - PL VILLE	W89	1720	1976	2265	206	25182
DUNWODIE - PL VILLW	W90	1720	1976	2265	205	25250
DUNWODIE - RAINHEY	72	715	817	1081	208	25191
DUNWODIE - RAINHEY	71	715	817	1081	207	25151
DUNWODIE - SHORE RD	Y50	599	877	1416	115	25091
DUNWODIE - SPRBROOK	W75	2384	2708	3247	209	25071
DURZ-129 - BELL-129	129	168	185	199	765	69854
DURZ-130 - ZRMN-130	130	168	181	206	764	69855
E FISH I - FISHKILL	F33	412	445	445	2868	25724
E RIVER - E15ST 47	44371	240	254	275	217	25459
E VIEW1 - BUCH N	W93	1720	1890	2401	175	25133
E VIEW1 - EASTVIEW	87874	370	424	424	211	25471
E VIEW1 - SPRBROOK	W79	1720	2214	2657	224	25153
E VIEW2 - EASTVIEW	87873	370	424	424	210	25472
E VIEW2 - MILLWOOD	W82	2293	2708	3236	225	25147
E VIEW2 - SPRBROOK	W64	2293	2708	3236	223	25143
E VIEW3 - EASTVIEW	87872	370	424	424	212	25470

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE	NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
E	VIEW3 - MILLWOOD	W99	2293	2708	3236	222	25255
E	VIEW3 - SPRBROOK	W65	1720	2214	2657	226	25144
E	VIEW4 - EASTVIEW	87871	370	424	424	2835	25373
E	VIEW4 - MILLWOOD	W85	2293	2708	3236	325	25258
E	VIEW4 - SPRBROOK	W78	2293	2708	3236	2834	25346
E	WTRTWN - COFFEEN	5	116	119	119	840	25504
E	WTRTWN - LTHSE HL	5	116	119	119	840	25504
E.G.C.	- CARLE PL	361	250	288	322	18	25533
E.G.C.	- E.G.C.-1	BK#2	444	556	761	2860	25552
E.G.C.	- E.G.C.-2	BK#1	444	556	761	2859	25551
E.G.C.	- NEWBRGE	463	200	294	396	25	25304
E.G.C.	- NEWBRGE	462	200	294	396	24	25303
E.G.C.	- ROSLYN	362	258	297	332	28	25534
E.G.C.	- VLY STRM	262	218	275	353	30	25244
E.G.C.-1	- E.G.C.	BK#2	444	556	761	2860	25552
E.G.C.-2	- E.G.C.	BK#1	444	556	761	2859	25551
E.NOR115	- JENN 115	946	80	110	131	530	25729
E.NOR115	- WILET115	945	108	128	145	531	25732
E.SAYRE	- N.WAV115	956	90	124	124	608	25013
E.SPR115	- INGHAM-E	941	80	106	131	536	25061
E.TWANDA	- HILSD230	70	483	531	554	582	25014
E.WALD 1	- ROCK TV1	D	232	265	311	416	69038
E13 ST	- E15ST 45	37375	232	305	321	228	25468
E13 ST	- E15ST 46	37373	225	299	362	230	25465
E13 ST	- E15ST 47	37378	240	305	384	231	25469
E13 ST	- E15ST 48	37376	232	305	321	232	25463
E15ST 45	- E13 ST	37375	232	305	321	228	25468
E15ST 45	- FARRAGUT	45	726	882	1258	234	25190
E15ST 45	- W 49 ST	M55	774	866	1291	237	25222
E15ST 46	- E13 ST	37373	225	299	362	230	25465
E15ST 46	- FARRAGUT	46	726	882	1258	236	25251
E15ST 46	- W 49 ST	M54	774	866	1291	235	25228
E15ST 47	- ASTOR345	Q35L	538	621	1476	139	25134
E15ST 47	- E RIVER	44371	240	254	275	217	25459
E15ST 47	- E13 ST	37378	240	305	384	231	25469
E15ST 47	- FARRAGUT	B47	419	683	1124	238	25177
E15ST 48	- ASTOR345	Q35M	538	621	1476	140	25142
E15ST 48	- E13 ST	37376	232	305	321	232	25463
E15ST 48	- FARRAGUT	48	419	683	1124	239	25252
E179 ST	- DUN SO1R	99153LM	223	314	396	203	25287
E179 ST	- HG 1	15054	161	245	393	240	25290
E179 ST	- HG 4	15053	161	245	393	241	25289
E179 ST	- HG 6	15055	222	328	480	242	25288
E179 ST	- PK-CITY1	38X01	108	151	189	243	25327
E179 ST	- PK-CITY2	38X02	108	151	189	244	25328
E179 ST	- PK-CITY3	38X03	108	151	189	245	25330
E179 ST	- PK-CITY4	38X04	108	151	189	246	25329
E179 ST	- S CREEK	15032	161	245	393	248	25156
E179 ST	- S CREEK	15031	161	245	393	247	25157

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
EASTVIEW - E VIEW1	87874	370	424	424	211	25471
EASTVIEW - E VIEW2	87873	370	424	424	210	25472
EASTVIEW - E VIEW3	87872	370	424	424	212	25470
EASTVIEW - E VIEW4	87871	370	424	424	2835	25373
EBAT-107 - BATAVIA1	107	119	128	152	636	25124
EDIC - CLAY	CE 2-15	1032	1284	1434	837	25200
EDIC - CLAY	CE 1-16	1032	1284	1434	836	25169
EDIC - FRASR345	EF24-40	1380	1380	1380	2802	25112
EDIC - JA FITZP	FE-1	1434	1434	1912	867	25077
EDIC - MARCY T1	UE1-7	1677	1792	1792	868	25229
EDIC - N.SCOT77	14	1331	1538	1724	873	25170
EDIC - PORTER 1	BK#3/10	455	539	679	871	25424
EDIC - PORTER 1	BK#4/20	505	629	794	870	25454
EDIC - PORTER 2	BK#2/17	478	562	637	872	25422
ELBRIDGE - ELBRIDGE	BK#1	470	557	717	874	25448
ELBRIDGE - ELBRIDGE	BK#1	470	557	717	874	25448
ELBRIDGE - HAMLT115	983	125	143	154	878	69053
ELBRIDGE - HYATT115	15	129	148	160	587	25109
ELBRIDGE - LAFAYTTE	17	940	1562	1912	880	25149
ELBRIDGE - OSWEGO	17	1206	1326	1685	881	25234
ELBRIDGE - STATE115	972/5	108	128	145	627	25107
ELWOOD 1 - NRTHPRT2	681	352	504	604	33	25544
ELWOOD 2 - NRTHPRT2	678	352	504	604	2863	25543
ERIE E - S RIPLEY	69	499	607	617	665	25016
ETNA 115 - CODNT115	998	227	253	283	515	25734
ETNA 115 - WILET115	945	108	128	145	540	25731
FALCONER - WARREN	171	82	120	136	673	25015
FARMGNTN1 - HAMLT115	983	125	143	154	884	69138
FARRAGUT - E15ST 45	45	726	882	1258	234	25190
FARRAGUT - E15ST 46	46	726	882	1258	236	25251
FARRAGUT - E15ST 47	B47	419	683	1124	238	25177
FARRAGUT - E15ST 48	48	419	683	1124	239	25252
FARRAGUT - GOWANUSN	41	618	807	1183	260	25141
FARRAGUT - GOWANUSS	42	618	807	1183	261	25140
FARRAGUT - RAINNEY	63	661	758	1081	267	25152
FARRAGUT - RAINNEY	62	694	791	1097	266	25253
FARRAGUT - RAINNEY	61	661	758	1081	265	25254
FISHKILL - E FISH I	F33	412	445	445	2868	25724
FISHKILL - PLTVLLEY	F36	1720	2214	2657	268	25256
FISHKILL - PLTVLLEY	F37	1720	2214	2657	269	25257
FISHKILL - ROSETON	RFK-305	1935	2677	3137	272	25108
FISHKILL - SYLVN115	A/990	232	253	312	376	25066
FISHKILL - WOOD A	F38/Y86	1839	2606	3105	270	25367
FOXHLLS1 - GRENSWOOD	29231	154	239	387	276	25321
FOXHLLS2 - GRENSWOOD	29232	154	239	387	278	25322
FR KILLS - FRKILLR2	TA1	275	387	486	283	25457
FR KILLS - FRKILLSR	TB1	272	372	440	284	25458
FR KILLS - GOTHLIS N	22	982	1390	1624	285	25137
FR KILLS - GOTHLIS S	21	920	1010	1283	286	25138

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
FR-KILLS - FRKILLR2	21192	275	387	486	2804	25639
FR-KILLS - FRKILLSR	21192	272	372	440	280	25640
FR-KILLS - WILOWBK1	29211	169	271	452	277	25319
FR-KILLS - WILOWBK2	29212	169	271	452	279	25320
FRASR115 - FRASR345	BK#2	305	386	420	2851	25391
FRASR345 - COOPC345	FCC-33	1207	1404	1703	521	25236
FRASR345 - EDIC	EF24-40	1380	1380	1380	2802	25112
FRASR345 - FRASR115	BK#2	305	386	420	2851	25391
FRASR345 - GILB 345	GF5-35	1428	1524	1524	544	25060
FRASR345 - OAKDL345	32	1255	1380	1380	543	25235
FRKILLR2 - FR KILLS	TA1	275	387	486	283	25457
FRKILLR2 - FR-KILLS	21192	275	387	486	2804	25639
FRKILLSR - FR KILLS	TB1	272	372	440	284	25458
FRKILLSR - FR-KILLS	21192	272	372	440	280	25640
FRMGTN-4 - BORDR115	977/4	150	179	195	507	25057
FRMGTN-4 - PANNELLI	4	207	247	280	887	25080
GARDN M6 - GARDV230	#7	204	246	300	546	25435
GARDV115 - LANGN115	903/904	139	163	183	524	68914
GARDV230 - GARDN M6	#6	316	409	420	545	25405
GARDV230 - GRDNVL2	T8-12	663	739	773	550	25089
GARDV230 - STOLE230	66	474	478	478	549	25180
GILB 345 - FRASR345	GF5-35	1428	1524	1524	544	25060
GILB 345 - LEEDS 3	GL-3	1428	1605	1912	1017	25219
GILB 345 - N.SCOT99	GNS-1	1242	1386	1589	1018	25052
GINNA115 - PANNELLI	912	207	247	285	1074	25260
GLNWD GT - ROSLYN	364	291	320	372	42	25556
GLNWD NO - SHORE RD	366	447	499	572	44	25154
GLNWD SO - CARLE PL	363	291	321	372	19	25554
GLNWD SO - SHORE RD	365	492	549	630	46	25205
GOETH T - GOETHALS	BKA2253	528	727	817	287	25642
GOETH T - GOTHL R	BKA2253	528	727	817	287	25642
GOETHALS - GOETH T	BKA2253	528	727	817	287	25642
GOTHLS N - FR KILLS	22	982	1390	1624	285	25137
GOTHLS N - GOWANUSN	25	460	683	1022	290	25139
GOTHLS R - GOETH T	BKA2253	528	727	817	287	25642
GOTHLS S - FR KILLS	21	920	1010	1283	286	25138
GOTHLS S - GOWANUSS	26	460	683	1022	291	25571
GOUDY115 - LAUREL L	952	108	128	143	556	25012
GOUDY115 - S.OWE115	961	112	131	143	555	25725
GOWANUSN - FARRAGUT	41	618	807	1183	260	25141
GOWANUSN - GOTHL S N	25	460	683	1022	290	25139
GOWANUSN - GOWNUS1T	T2	238	276	328	292	25476
GOWANUSS - FARRAGUT	42	618	807	1183	261	25140
GOWANUSS - GOTHL S	26	460	683	1022	291	25571
GOWANUSS - GOWNUS2T	T14	238	276	328	293	25475
GOWNUS1R - GRENSWOOD	42232	226	301	409	301	25214
GOWNUS1T - GOWANUSN	T2	238	276	328	292	25476
GOWNUS2R - GRENSWOOD	42231	226	301	409	297	25215
GOWNUS2T - GOWANUSS	T14	238	276	328	293	25475

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE	NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
GR-TAP1	- ALCOA N	MAL-6	218	253	291	792	25582
GR-TAP1	- MOS 115	MAL-6	218	253	291	792	25582
GR-TAP2	- MOS 115	MAL-5	238	275	310	794	25583
GRDNVL1	- GRDNVL2	2	257	280	354	677	25385
GRDNVL1	- GRDNVL2	4	141	183	250	679	25417
GRDNVL1	- GRDNVL2	3	141	182	250	678	25416
GRDNVL2	- DUNKIRK	74	556	637	637	664	25197
GRDNVL2	- GARDV230	T8-12	663	739	773	550	25089
GRDNVL2	- GRDNVL1	2	257	280	354	677	25385
GRDNVL2	- GRDNVL1	4	141	183	250	679	25417
GRDNVL2	- GRDNVL1	3	141	182	250	678	25416
GRDNVL2	- SUNY-79	79	566	654	755	690	25165
GRDNVL2	- SUNY-80	80	566	654	755	691	25196
GRENWOOD	- FOXHLLS1	29231	154	239	387	276	25321
GRENWOOD	- FOXHLLS2	29232	154	239	387	278	25322
GRENWOOD	- GOWNUS1R	42232	226	301	409	301	25214
GRENWOOD	- GOWNUS2R	42231	226	301	409	297	25215
GRENWOOD	- VERNON-E	31232	154	239	387	305	25298
HAE TR1	- HUDAVE E	32077	110	155	195	264	25291
HAE TR3	- HUDAVE E	32078	110	155	195	263	25292
HAMLT115	- ELBRIDGE	983	125	143	154	878	69053
HAMLT115	- FARMGTON1	983	125	143	154	884	69138
HANCO115	- STILV115	954/955	102	113	120	565	69271
HG 1	- ASTORIAE	34052	161	245	393	134	25324
HG 1	- E179 ST	15054	161	245	393	240	25290
HG 2	- ASTORIAW	24054	140	186	186	146	25213
HG 3	- ASTORIAW	24053	140	186	186	147	25212
HG 4	- ASTORIAE	34051	161	245	393	135	25323
HG 4	- E179 ST	15053	161	245	393	241	25289
HG 5	- ASTORIAW	24051	177	249	480	148	25210
HG 6	- ASTORIAW	24052	177	249	480	149	25211
HG 6	- E179 ST	15055	222	328	480	242	25288
HICK 115	- CATON115	958/960	102	113	120	574	69341
HILLBURN	- RINGWOD6	89/993	112	130	137	483	69353
HILSD M3	- HILSD230	BK#3	231	294	336	576	25397
HILSD230	- E.TWANDA	70	483	531	554	582	25014
HILSD230	- HILSD M3	BK#3	231	294	336	576	25397
HILSD230	- WATRC230	69	504	584	657	581	25181
HINMN115	- LOCKPORT	100	220	252	280	585	25087
HOLBROOK	- BRKHAVEN	888	703	817	935	2927	25542
HOLBROOK	- PT JEFF1	886	284	312	373	61	25540
HOLBROOK	- RONKONK	883/889	468	515	654	67	25682
HOLBROOK	- RULND RD	882	468	520	623	68	25538
HOLBROOK	- SHOREHAM	925	203	226	239	547	25116
HOMER CY	- STOLE345	37	605	757	840	630	25036
HOMER CY	- WATRC345	30	926	927	927	635	25018
HPKNS-11	- CLAY	10	116	120	145	834	25520
HUDEV E	- HAE TR1	B43	110	155	195	262	25293
HUDEV E	- HAE TR3	32078	110	155	195	263	25292

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LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
HUDAVE E - JAMAICA	702	129	213	366	317	25295
HUDAVE E - JAMAICA	701	129	213	366	316	25294
HUNTLEY1 - S129-39	38	129	151	185	703	69428
HUNTLEY1 - ZRMN-130	129	168	181	199	705	69426
HUNTLEY2 - PACKARD2	78	556	644	746	707	25164
HUNTLEY2 - SUNY-79	79	566	654	755	708	25127
HUNTLEY2 - SUNY-80	80	566	654	755	709	25128
HURLEY 1 - HURLEY 3	BK 1	419	481	488	431	25419
HURLEY 3 - HURLEY 1	BK 1	419	481	488	431	25419
HURLEY 3 - LEEDS 3	301	1529	1766	1912	435	25055
HURLEY 3 - ROSETON	303	1395	1623	1870	434	25218
HYATT115 - BORDR115	979	129	148	160	506	25106
HYATT115 - ELBRIDGE	15	129	148	160	587	25109
ILION - PORTER 1	2	116	120	145	991	25232
INGHAM-E - E.SPR115	941	80	106	131	536	25061
INGHAM-E - INGMS-CD	2	167	197	239	898	25242
INGMS-CD - INGHAM-E	2	167	197	239	898	25242
JA FITZP - EDIC	FE-1	1434	1434	1912	867	25077
JA FITZP - SCRIBA	FS-10	1434	1434	1912	900	25076
JAMAICA - CORONA1R	18001	161	245	393	185	25285
JAMAICA - CORONA2R	18002	161	245	393	186	25286
JAMAICA - HUDEV E	702	129	213	366	317	25295
JAMAICA - HUDEV E	701	129	213	366	316	25294
JAMAICA - L SUCSPH	903	238	341	428	78	25090
JAMAICA - V STRM P	901L+M	272	361	441	118	25048
JENN 115 - E.NOR115	946	80	110	131	530	25729
KINTI345 - ROCH 345	SR1-39	1301	1501	1685	624	25073
L SUCS - SHORE RD	368	208	346	604	76	25150
L SUCS - SHORE RD	367	208	346	604	75	25145
L SUCSPH - JAMAICA	903	238	341	428	78	25090
LABRADOR - CORTLAND	3	125	143	154	855	25894
LABRADOR - DELPHI	3	125	143	154	855	25894
LAIDENTWN - BOWLINE2	68	687	747	747	166	25249
LAIDENTWN - BUCH S	Y88	1703	1890	2401	180	25185
LAIDENTWN - RAMAPO	W72	1720	1890	2401	320	25233
LAIDENTWN - W.HAV345	67	1720	2214	2657	321	25248
LAFAYTTE - DEWITT 3	22	1434	1434	1434	866	25174
LAFAYTTE - ELBRIDGE	17	940	1562	1912	880	25149
LAFAYTTE - OAKDL345	4-36	1255	1380	1380	614	25049
LANGN115 - GARDV115	903/904	139	163	183	524	68914
LAUREL L - GOUDY115	952	108	128	143	556	25012
LCST GRV - NEWBRGE	558	393	466	568	2898	25158
LEEDS 3 - GILB 345	GL-3	1428	1605	1912	1017	25219
LEEDS 3 - HURLEY 3	301	1529	1766	1912	435	25055
LEEDS 3 - N.SCOT77	93	1331	1538	1724	1029	25171
LEEDS 3 - N.SCOT99	94	1331	1538	1724	1028	25203
LEEDS 3 - PLTVLLEY	91	1331	1538	1724	347	25054
LEEDS 3 - PLTVLLEY	92	1331	1538	1724	348	25056
LOCKPORT - HINMN115	100	220	252	280	585	25087

NYISO SUMMER 2001 OPERATING STUDY  
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LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
LOCKPORT - NAKR-108	108	130	136	165	712	25266
LOCKPORT - OAKFLDTP	112	131	144	159	646	25300
LOCKPORT - SHEL-113	113	143	165	180	718	25263
LOCKPORT - SOUR-111	111	131	144	159	717	25262
LOCKPORT - TELRDTP1	107	199	199	199	637	25265
LOCKPORT - TELRDTP1	114	143	165	180	721	25264
LONGTAP - NIAG115E	GV-180	160	166	206	681	25104
LOUNS115 - N.WAV115	962	112	131	143	607	25727
LTHSE HL - BLACK RV	6	106	114	134	805	25506
LTHSE HL - E WTRTWN	5	116	119	119	840	25504
LWRNCE-B - DENNISON	4	182	197	248	935	25225
MACDN115 - QUAKER	930	60	75	112	594	25093
MALONE - NICHOLVL	3	119	128	152	905	25585
MALONE - WILL 115	WM-1	129	159	175	906	25586
MARCY T1 - COOPC345	UCC2-41	1345	1345	1345	2803	25113
MARCY T1 - EDIC	UE1-7	1677	1792	1792	868	25229
MARCY T1 - MARCY765	MAR-AT2	1488	1793	2338	908	25456
MARCY T1 - MARCY765	MAR-AT1	1488	1654	1654	907	25455
MARCY T1 - N.SCOT99	UNS-18	1488	1792	1792	910	25276
MARCY T1 - VOLNEY	VU-19	1434	1793	1912	909	25345
MARCY765 - MARCY T1	MAR-AT2	1488	1793	2338	908	25456
MARCY765 - MARCY T1	MAR-AT1	1488	1654	1654	907	25455
MARCY765 - MASS 765	MSU1	3975	3975	5300	911	25224
MARSH115 - CLINTON	11/12	125	143	154	1012	68794
MASS 765 - CHATG-NY	MSC7040	3975	3975	5300	825	25301
MASS 765 - MARCY765	MSU1	3975	3975	5300	911	25224
MASS 765 - MASS230A	MAS-AT1	936	1151	1348	912	25665
MASS 765 - MASS230B	MAS-AT2	936	1151	1348	914	25666
MASS230A - MASS 765	MAS-AT1	936	1151	1348	912	25665
MASS230A - MOSES E	MMS1	936	1151	1348	913	25274
MASS230B - MASS 765	MAS-AT2	936	1151	1348	914	25666
MASS230B - MOSES E	MMS2	936	1151	1348	915	25275
MEYER M4 - MEYER230	BK#4	231	294	336	595	25398
MEYER230 - MEYER M4	BK#4	231	294	336	595	25398
MEYER230 - STOLE230	67	430	494	540	598	25064
MILAN - N.CAT. 1	T7	124	138	159	441	69719
MILAN - PL.VAL 1	R10	129	166	206	338	69896
MILLWOOD - BUCH S	W98	1493	1680	1902	182	25146
MILLWOOD - BUCH S	W97	1493	1680	1902	181	25247
MILLWOOD - E VIEW2	W82	2293	2708	3236	225	25147
MILLWOOD - E VIEW3	W99	2293	2708	3236	222	25255
MILLWOOD - E VIEW4	W85	2293	2708	3236	325	25258
MILLWOOD - MLWD TA	96922	216	307	346	323	25530
MILLWOOD - MLWD TA	96921	205	297	321	322	25531
MILLWOOD - WOOD B	W80	1720	2214	2657	326	25148
MLPN-129 - BELL-129	129	168	185	199	765	69854
MLPN-129 - PACK(S)W	133	168	181	199	465	69854
MLPN-130 - PACK(S)W	130	168	181	206	764	69855
MLWD TA - MILLWOOD	96922	216	307	346	323	25530

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LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
MLWD TA - MILLWOOD	96921	205	297	321	322	25531
MONTR115 - CODNT115	982	108	128	144	516	25728
MORAI115 - BENET115	966	124	139	159	503	68439
MORTIMER - PTSFD-24	NMP #24	129	148	160	728	25096
MORTIMER - S33 901	901	129	159	159	731	25097
MORTIMER - S80 3TR	904	227	251	284	732	25081
MORTIMER - SOUR-114	114	129	149	153	725	25349
MORTIMER - STA 89	NMP#25	114	123	142	729	25095
MORTIMER - SWDN-111	111	129	136	153	723	25347
MOS 115 - GR-TAP1	MAL-6	218	253	291	792	25582
MOS 115 - GR-TAP2	MAL-5	238	275	310	794	25583
MOS 115 - MOSES W	SL-AT1	401	490	646	922	25411
MOS 115 - MOSES W	SL-AT2	401	490	646	923	25451
MOS 115 - MOSES W	SL-AT3	192	240	287	920	25452
MOS 115 - MOSES W	SL-AT4	537	598	773	921	25453
MOSES E - MASS230A	MMS1	936	1151	1348	913	25274
MOSES E - MASS230B	MMS2	936	1151	1348	915	25275
MOSES W - ADRON B1	MA-1	348	359	440	782	25269
MOSES W - ADRON B2	MA-2	348	386	440	784	25270
MOSES W - MOS 115	SL-AT1	401	490	646	922	25411
MOSES W - MOS 115	SL-AT2	401	490	646	923	25451
MOSES W - MOS 115	SL-AT3	192	240	287	920	25452
MOSES W - MOS 115	SL-AT4	537	598	773	921	25453
MOSES W - WILLIS E	MW-2	349	418	512	927	25188
MOSES W - WILLIS W	MW-1	349	418	512	926	25271
MTNS-120 - NIAG115E	MT-120	176	211	239	733	25135
N.CAT. 1 - MILAN	T7	124	138	159	441	69719
N.SCOT1 - N.SCOT77	BK#1	458	474	489	1039	25445
N.SCOT1 - N.SCOT99	BK#2	455	461	484	2816	25460
N.SCOT1 - RTRDM1	13	241	265	318	1041	25494
N.SCOT77 - ALPS345	2	1204	1326	1589	993	25217
N.SCOT77 - EDIC	14	1331	1538	1724	873	25170
N.SCOT77 - LEEDS 3	93	1331	1538	1724	1029	25171
N.SCOT77 - N.SCOT1	BK#1	458	474	489	1039	25445
N.SCOT99 - GILB 345	GNS-1	1242	1386	1589	1018	25052
N.SCOT99 - LEEDS 3	94	1331	1538	1724	1028	25203
N.SCOT99 - MARCY T1	UNS-18	1488	1792	1792	910	25276
N.SCOT99 - N.SCOT1	BK#2	455	461	484	2816	25460
N.WAV115 - CHEMU115	962	112	131	143	577	25726
N.WAV115 - E.SAYRE	956	90	124	124	608	25013
N.WAV115 - LOUNS115	962	112	131	143	607	25727
NAKR-108 - BATAVIA1	108	130	136	159	647	25125
NAKR-108 - LOCKPORT	108	130	136	165	712	25266
NEWBRGE - E.G.C.	463	200	294	396	25	25304
NEWBRGE - E.G.C.	465	216	311	424	26	25535
NEWBRGE - LCST GRV	558	393	466	568	2898	25158
NEWBRGE - RULND RD	561	255	294	329	81	25305
NIAG 345 - BECK A	PA302	1070	1322	1714	759	25041
NIAG 345 - BECK B	PA301	1070	1322	1714	758	25040

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
NIAG 345 - NIAGAR2E	N-AT5	384	479	575	745	25408
NIAG 345 - NIAGAR2E	N-AT3	384	479	575	744	25450
NIAG 345 - NIAGAR2W	N-AT4	767	943	1104	752	25449
NIAG115E - LONGTAP	GV-180	160	166	206	681	25104
NIAG115E - MTNS-120	MT-120	176	211	239	733	25135
NIAG115E - NIAGAR2W	N-AT1	192	239	288	739	25409
NIAG115E - PACK(N)E	PK-191	248	299	354	742	25075
NIAG115E - PACK(N)E	PK-192	248	299	354	741	25099
NIAG115E - SANBORNT	LK-101	233	253	318	713	25267
NIAG115E - SNBRN102	LK-102	233	253	318	743	25103
NIAG115W - NIAGAR2W	N-AT2	229	276	359	747	25410
NIAG115W - PACK(S)W	PK-194	248	299	354	750	25100
NIAG115W - PACK(S)W	PK-193	248	299	354	749	25101
NIAG115W - PACK(S)W	PK-195	233	253	335	751	25102
NIAGAR2E - NIAG 345	N-AT5	384	479	575	745	25408
NIAGAR2E - NIAG 345	N-AT3	384	479	575	744	25450
NIAGAR2E - ROBIN230	RR-64	496	598	704	618	25088
NIAGAR2W - NIAG 345	N-AT4	767	943	1104	752	25449
NIAGAR2W - NIAG115E	N-AT1	192	239	288	739	25409
NIAGAR2W - NIAG115W	N-AT2	229	276	359	747	25410
NIAGAR2W - PA27 REG	PA27	400	460	558	756	25025
NIAGAR2W - PACKARD2	PK-61	620	717	841	754	25220
NICHOLVL - MALONE	3	119	128	152	905	25585
NRTHPRT1 - NRTHPRT2	BUS/PS2	407	505	570	91	25599
NRTHPRT1 - PILGRIM	672	204	288	353	94	25307
NRTHPRT1 - PILGRIM	677	409	575	604	92	25308
NRTHPRT1 - PILGRIM	679	409	575	604	93	25309
NRTHPRT2 - ELWOOD 1	681	352	504	604	33	25544
NRTHPRT2 - ELWOOD 2	678	352	504	604	2863	25543
NRTHPRT2 - NRTHPRT1	BUS/PS2	407	505	570	91	25599
OAK2M115 - OAKDL345	BK#3	428	556	600	571	25399
OAK3M115 - OAKDL345	BK#2	428	556	600	610	25401
OAKDL115 - OAKDL230	BK#1	275	400	440	609	25400
OAKDL230 - OAKDL115	BK#1	275	400	440	609	25400
OAKDL345 - FRASR345	32	1255	1380	1380	543	25235
OAKDL345 - LAFAYTTE	4-36	1255	1380	1380	614	25049
OAKDL345 - OAK2M115	BK#3	428	556	600	571	25399
OAKDL345 - OAK3M115	BK#2	428	556	600	610	25401
OAKDL345 - WATRC345	31	926	1076	1076	613	25178
OAKFLDTP - BATAVIA1	112	128	136	159	446	25126
OAKFLDTP - LOCKPORT	112	131	144	159	646	25300
OAKWOOD - SYOSSET	675	269	358	541	96	25547
ONEIDA - PETRBORO	5	116	120	145	940	25896
ONEIDA - TEALL	2	116	120	145	939	25895
ONEIDA - WHITMAN	3	125	143	154	855	25894
OSW 3&4 - OSWEGO	BK 7	496	552	690	966	25372
OSW 3&4 - S OSWEGO	5	209	239	239	952	25508
OSW 3&4 - S OSWEGO	8	400	462	478	953	25509
OSWEGO - ELBRIDGE	17	1206	1326	1685	881	25234

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LINE NAME		LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
OSWEGO	- OSW 3&4	BK 7	496	552	690	966	25372
OSWEGO	- VOLNEY	11	1200	1326	1685	948	25199
OW CRN W	- UNVL 9TP	2	116	120	145	450	25067
PA27 REG	- NIAGAR2W	PA27	400	460	558	756	25025
PACK(N)E	- NIAG115E	PK-191	248	299	354	742	25075
PACK(N)E	- NIAG115E	PK-192	248	299	354	741	25099
PACK(N)E	- PACKARD2	3	141	182	250	760	25414
PACK(S)W	- MLPN-129	133	168	181	199	465	69854
PACK(S)W	- MLPN-130	130	168	181	206	764	69855
PACK(S)W	- NIAG115W	PK-194	248	299	354	750	25100
PACK(S)W	- NIAG115W	PK-193	248	299	354	749	25101
PACK(S)W	- NIAG115W	PK-195	233	253	335	751	25102
PACK(S)W	- PACKARD2	2	106	136	183	761	25383
PACK(S)W	- PACKARD2	4	141	182	250	762	25415
PACKARD2	- BP76 REG	BP76	478	492	569	763	25024
PACKARD2	- HUNTLEY2	77	556	644	746	706	25195
PACKARD2	- NIAGAR2W	PK-62	620	717	841	755	25186
PACKARD2	- PACK(N)E	3	141	182	250	760	25414
PACKARD2	- PACK(S)W	2	106	136	183	761	25383
PACKARD2	- PACK(S)W	4	141	182	250	762	25415
PALMT115	- ANDOVER1	932	78	85	98	615	25094
PALOMA	- S OSWEGO	6	114	120	142	903	25513
PANNELL3	- CLAY	PC-2	1032	1284	1434	768	25050
PANNELL3	- CLAY	PC-1	1032	1284	1434	769	25058
PANNELL3	- PANNELLI	122 2TR	255	320	330	771	25396
PANNELL3	- PANNELLI	122 1TR	255	320	330	770	25431
PANNELL3	- ROCH 345	RP-1	1301	1501	1685	767	25192
PANNELL3	- ROCH 345	RP-2	1301	1501	1685	766	25172
PANNELLI	- FRMGTN-4	4	207	247	280	887	25080
PANNELLI	- GINNA115	912	207	247	285	1074	25260
PANNELLI	- PANNELL3	122 2TR	255	320	330	771	25396
PANNELLI	- PANNELL3	122 1TR	255	320	330	770	25431
PANNELLI	- PTSFD-24	24	129	148	160	1079	69863
PANNELLI	- PTSFD-25	25	114	123	142	1080	69862
PANNELLI	- QUAKER	914	207	247	285	1081	25261
PARK TR1	- PARK1REG	R11	215	301	379	330	25649
PARK TR1	- TREMONT	R11	215	301	379	350	25473
PARK TR2	- PARK2REG	R12	215	301	379	333	25650
PARK TR2	- TREMONT	R12	215	301	379	351	25474
PARK1REG	- PARK TR1	R11	215	301	379	330	25649
PARK2REG	- PARK TR2	R12	215	301	379	333	25650
PAWLN115	- SYLVN115	990/994	176	179	179	188	68887
PETRBORO	- BRDGPORT	5	116	120	145	940	25896
PETRBORO	- ONEIDA	5	116	120	145	940	25896
PILGRIM	- NRTHPRT1	672	204	288	353	94	25307
PILGRIM	- NRTHPRT1	677	409	575	604	92	25308
PILGRIM	- NRTHPRT1	679	409	575	604	93	25309
PILGRIM	- RULND RD	661	549	549	549	105	25310
PILGRIM	- RULND RD	662	549	549	549	104	25311

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
PK-CITY1 - E179 ST	38X01	108	151	189	243	25327
PK-CITY2 - E179 ST	38X02	108	151	189	244	25328
PK-CITY3 - E179 ST	38X03	108	151	189	245	25330
PK-CITY4 - E179 ST	38X04	108	151	189	246	25329
PL VILLE - DUNWODIE	W89	1720	1976	2265	206	25182
PL VILLE - PLTVILLE	1	59	67	67	345	25477
PL VILLW - DUNWODIE	W90	1720	1976	2265	205	25250
PL VILLW - PLTVILLE	2	59	67	67	344	25478
PL VILLW - WOOD A	Y87	1839	2605	3105	352	25132
PL.VAL 1 - MILAN	R10	129	166	206	338	69896
PL.VAL 1 - PLTVLLEY	BK S1	415	450	450	334	25382
PLAT 115 - T MIL RD	PS-1/B	96	123	150	959	25078
PLAT T#1 - WILLIS E	WP-1	170	203	249	967	25272
PLAT T#4 - WILLIS W	WP-2	170	203	249	956	25273
PLTVILLE - PL VILLE	1	59	67	67	345	25477
PLTVILLE - PL VILLW	2	59	67	67	344	25478
PLTVLLEY - FISHKILL	F36	1720	2214	2657	268	25256
PLTVLLEY - FISHKILL	F37	1720	2214	2657	269	25257
PLTVLLEY - LEEDS 3	91	1331	1538	1724	347	25054
PLTVLLEY - LEEDS 3	92	1331	1538	1724	348	25056
PLTVLLEY - PL.VAL 1	BK S1	415	450	450	334	25382
PLTVLLEY - WOOD B	F30	1720	2214	2657	346	25237
PORTER 1 - EDIC	BK#3/10	455	539	679	871	25424
PORTER 1 - EDIC	BK#4/20	505	629	794	870	25454
PORTER 1 - ILION	5	116	120	145	896	25232
PORTER 1 - PORTER 2	1	268	320	338	971	25423
PORTER 1 - VALLEY	4	116	120	145	973	25231
PORTER 2 - ADRON B1	AP11	321	353	449	783	25051
PORTER 2 - ADRON B2	AP12	321	353	449	785	25082
PORTER 2 - EDIC	BK#2/17	478	562	637	872	25422
PORTER 2 - PORTER 1	2	268	320	338	972	25389
PORTER 2 - ROTRDM.2	30	440	505	560	974	25173
PT JEFF1 - HOLBROOK	886	284	312	373	61	25540
PTSFD-24 - MORTIMER	NMP #24	129	148	160	728	25096
PTSFD-24 - PANNELLI	24	129	148	160	1079	69863
PTSFD-25 - PANNELLI	25	114	123	142	1080	69862
QUAKER - MACDN115	930	60	75	112	594	25093
QUAKER - PANNELLI	914	207	247	285	1081	25261
QUAKER - SLEIG115	NMP #13	150	170	189	621	25079
QUENBRDG - ASTORIAW	28244	308	478	645	153	25318
QUENBRDG - ASTORIAW	28243	308	478	645	152	25317
QUENBRDG - ASTORIAW	28241	154	239	387	151	25315
QUENBRDG - ASTORIAW	28242	154	239	387	150	25316
QUENBRDG - VERNON-E	31282	308	478	602	354	25159
QUENBRDG - VERNON-W	31281	312	542	602	353	25160
RAINEY - 8E DUM	36311	215	302	348	358	25296
RAINEY - 8W DUM	36312	215	305	358	359	25297
RAINEY - DUNWODIE	72	715	817	1081	208	25191
RAINEY - DUNWODIE	71	715	817	1081	207	25151

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE	NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
RAINEY	- FARRAGUT	63	661	758	1081	267	25152
RAINEY	- FARRAGUT	62	694	791	1097	266	25253
RAINEY	- FARRAGUT	61	661	758	1081	265	25254
RAM PAR	- RAMAPO	BK4500	545	741	999	2806	25370
RAM PAR	- RAMAPO	BK3500	545	741	999	2805	25371
RAM PAR	- RAMAPO 5	1500	995	1304	1752	360	25656
RAMAPO	- BUCH N	Y94	1703	1890	2401	178	25184
RAMAPO	- LADENTWN	W72	1720	1890	2401	320	25233
RAMAPO	- RAM PAR	BK4500	545	741	999	2806	25370
RAMAPO	- RAM PAR	BK3500	545	741	999	2805	25371
RAMAPO	- RAMAPO 1	1300	391	513	567	363	25441
RAMAPO	- RAMAPO 1	2300	391	513	567	362	25442
RAMAPO	- ROCK TAV	77	1720	1890	2283	361	25183
RAMAPO	- SMAHWAH1	69	1226	1737	2271	364	25021
RAMAPO	- SMAHWAH2	70	1720	1890	2401	365	25259
RAMAPO 1	- RAMAPO	1300	391	513	567	363	25441
RAMAPO 1	- RAMAPO	2300	391	513	567	362	25442
RAMAPO 5	- BRANCHBG	5018	999	1303	1751	366	25019
RAMAPO 5	- RAM PAR	1500	995	1304	1752	360	25656
REACBUS	- SPRBROOK	Y49	660	936	1392	2856	25105
REY. RD.	- REYNLD3	BK#2	459	562	755	1050	25403
REY. RD.	- WYANT115	13	186	214	237	1052	69928
REYNLD3	- ALPS345	1	459	562	755	994	25587
REYNLD3	- REY. RD.	BK#2	459	562	755	1050	25403
RINGWOD6	- HILLBURN	89/993	112	130	137	483	69353
ROBIN M1	- ROBIN230	BK#1	297	367	420	616	25395
ROBIN230	- NIAGAR2E	RR-64	496	598	704	618	25088
ROBIN230	- ROBIN M1	BK#1	297	367	420	616	25395
ROBIN230	- STOLE230	65	550	637	717	617	25065
ROCH 345	- KINTI345	SR1-39	1301	1501	1685	624	25073
ROCH 345	- PANNELL3	RP-1	1301	1501	1685	767	25192
ROCH 345	- PANNELL3	RP-2	1301	1501	1685	766	25172
ROCH 345	- S80 1TR	BK #1TR	207	247	284	772	25412
ROCH 345	- S80 3TR	BK #3TR	245	296	360	774	25446
ROCK TAV	- COOPC345	CRT-34	1464	1793	1793	2800	25110
ROCK TAV	- COOPC345	CRT-42	1554	1733	1793	2801	25111
ROCK TAV	- RAMAPO	77	1720	1890	2283	361	25183
ROCK TAV	- ROCK TV1	BK TR	396	445	445	457	25406
ROCK TAV	- ROSETON	311	1395	1623	1870	458	25069
ROCK TV1	- E.WALD 1	D	232	265	311	416	69038
ROCK TV1	- ROCK TAV	BK TR	396	445	445	457	25406
ROCK TV1	- SUGARLF	SL/6108	176	203	217	498	25420
RONKONK	- HOLBROOK	925	275	300	355	136	25682
ROSETON	- FISHKILL	RFK-305	1935	2677	3137	272	25108
ROSETON	- HURLEY 3	303	1395	1623	1870	434	25218
ROSETON	- ROCK TAV	311	1395	1623	1870	458	25069
ROSLYN	- E.G.C.	362	258	297	332	28	25534
ROSLYN	- GLNWD GT	364	291	320	372	42	25556
ROTRDM.2	- PORTER 2	31	439	505	560	975	25194

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
ROTRDM.2 - RTRDM1	BK#6	345	375	522	1056	25407
ROTRDM.2 - RTRDM1	BK#7	300	355	402	1057	25392
ROTRDM.2 - RTRDM1	BK#8	326	369	423	1058	25413
RTRDM1 - N.SCOT1	13	241	265	318	1041	25494
RTRDM1 - ROTRDM.2	BK#6	345	375	522	1056	25407
RTRDM1 - ROTRDM.2	BK#7	300	355	402	1057	25392
RTRDM1 - ROTRDM.2	BK#8	326	369	423	1058	25413
RULND RD - HOLBROOK	882	468	520	623	68	25538
RULND RD - NEWBRGE	562	255	294	329	80	25306
RULND RD - PILGRIM	661	549	549	549	105	25310
RULND RD - PILGRIM	662	549	549	549	104	25311
RVRHD - BRKHAVEN	864	250	288	322	14	25553
S CREEK - DUN NO1R	99031	129	188	290	197	25193
S CREEK - DUN NO2R	99032	129	188	290	198	25239
S CREEK - E179 ST	15032	161	245	393	248	25156
S CREEK - E179 ST	15031	161	245	393	247	25157
S OSWEGO - OSW 3&4	5	209	239	239	952	25508
S OSWEGO - OSW 3&4	8	400	462	478	953	25509
S OSWEGO - PALOMA	6	116	120	145	954	25513
S RIPLEY - ERIE E	69	499	607	617	665	25016
S.MAHWAH - SMAHWAH1	258	436	528	602	496	25393
S.OWE115 - GOUDY115	961	112	131	143	555	25725
S.PER115 - STA 162	T224	125	152	180	625	25062
S129-39 - HUNTLEY1	38	129	151	185	703	69428
S33 901 - MORTIMER	902	123	139	159	1117	25097
S80 1TR - ROCH 345	BK #1TR	207	247	284	772	25412
S80 3TR - MORTIMER	904	227	251	284	732	25081
S80 3TR - ROCH 345	BK #3TR	245	296	360	774	25446
SANBORNT - NIAG115E	LK-101	233	253	318	713	25267
SARANAC - T MIL RD	PS-1/B	96	123	150	959	25078
SCRIBA - 9M PT 2G	23	1670	1931	2211	981	70513
SCRIBA - 9MI PT1	9	994	1109	1271	980	25359
SCRIBA - JA FITZP	FS-10	1434	1434	1912	900	25076
SCRIBA - VOLNEY	20	1200	1396	1686	978	25204
SHEL-113 - LOCKPORT	113	143	165	180	718	25263
SHEL-113 - SWDN-113	113	129	149	153	724	25263
SHORE RD - DUNWODIE	Y50	599	877	1416	115	25091
SHORE RD - GLNWD NO	366	447	499	572	44	25154
SHORE RD - GLNWD SO	365	492	549	630	46	25205
SHORE RD - L SUCS	368	208	346	604	76	25150
SHORE RD - L SUCS	367	208	346	604	75	25145
SHORE RD - SHORE RD	BK#2	457	569	731	114	25440
SHORE RD - SHORE RD	BK#2	457	569	731	114	25440
SHORE RD - SHORE RD	BK#1	457	569	731	113	25439
SHORE RD - SHORE RD	BK#1	457	569	731	113	25439
SHOREHAM - BRKHAVEN	861	433	480	586	16	25114
SHOREHAM - HOLBROOK	885	433	480	586	71	25117
SLEIG115 - QUAKER	NMP #13	150	170	189	621	25079
SMAHWAH1 - RAMAPO	69	1226	1737	2271	364	25021

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
SMAHWAH1 - S.MAHWAH	258	436	528	602	496	25393
SMAHWAH2 - RAMAPO	70	1720	1890	2401	365	25259
SNBRN102 - NIAG115E	LK-102	233	253	318	743	25103
SOUR-111 - LOCKPORT	111	131	144	159	717	25262
SOUR-114 - MORTIMER	114	129	149	153	725	25349
SPRBROOK - DUNWODIE	W75	2384	2708	3247	209	25071
SPRBROOK - E VIEW1	W79	1720	2214	2657	224	25153
SPRBROOK - E VIEW2	W64	2293	2708	3236	223	25143
SPRBROOK - E VIEW3	W65	1720	2214	2657	226	25144
SPRBROOK - E VIEW4	W78	2293	2708	3236	2834	25346
SPRBROOK - REACBUS	Y49	660	936	1392	2856	25105
SPRBROOK - TREMONT	X28	452	656	879	373	25175
SPRBROOK - W 49 ST	M52	774	866	1291	375	25223
SPRBROOK - W 49 ST	M51	774	866	1291	374	25053
STA 162 - S.PER115	T224	125	152	180	625	25062
STA 89 - MORTIMER	NMP#25	114	123	142	729	25095
STATE115 - CLTNCCORN	971/3	108	128	145	510	25063
STATE115 - ELBRIDGE	972/5	108	128	145	627	25107
STILV115 - HANCO115	954/955	102	113	120	565	69271
STOLE115 - STOLE345	#4	305	387	420	629	25462
STOLE115 - STOLE345	#3	300	370	420	628	25461
STOLE230 - GARDV230	66	474	478	478	549	25180
STOLE230 - MEYER230	67	430	494	540	598	25064
STOLE230 - ROBIN230	65	550	637	717	617	25065
STOLE345 - HOMER CY	37	605	757	840	630	25036
STOLE345 - STOLE115	#4	305	387	420	629	25462
STOLE345 - STOLE115	#3	300	370	420	628	25461
SUGARLF - ROCK TV1	SL/6108	176	203	217	498	25420
SUNY-79 - GRDNVL2	79	566	654	755	690	25165
SUNY-79 - HUNTLEY2	79	566	654	755	708	25127
SUNY-80 - GRDNVL2	80	566	654	755	691	25196
SUNY-80 - HUNTLEY2	80	566	654	755	709	25128
SWDN-111 - MORTIMER	111	129	136	153	723	25347
SWDN-113 - SHEL-113	113	129	149	153	724	25263
SYLVN115 - FISHKILL	A/990	232	253	312	376	25066
SYLVN115 - PAWLN115	990/994	176	179	179	188	68887
SYOSSET - OAKWOOD	675	269	358	541	96	25547
T MIL RD - PLAT 115	PS-1/B	96	123	150	959	25078
T MIL RD - SARANAC	PS-1/B	96	123	150	959	25078
TEALL - BRDGPORT	5	116	120	145	940	25896
TEALL - ONEIDA	2	116	120	145	939	25895
TELRDTP1 - LOCKPORT	107	199	199	199	637	25265
TELRDTP1 - LOCKPORT	114	143	165	180	721	25264
TREMONT - PARK TR1	R11	215	301	379	350	25473
TREMONT - PARK TR2	R12	215	301	379	351	25474
TREMONT - SPRBROOK	X28	452	656	879	373	25175
TULLER H - CORTLAND	947	108	128	143	631	25059
UNION115 - CARML115	991/992	215	247	270	190	68885
UNION115 - CROTN115	991/992	215	247	270	190	68885

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
UNVL 9TP - OW CRN W	2	116	120	145	450	25067
V STRM P - JAMAICA	901L+M	272	361	441	118	25048
VALLEY - PORTER 1	4	116	120	145	973	25231
VERNON-E - GRENWOOD	31231	154	239	387	304	25299
VERNON-E - QUENBRDG	31282	308	478	602	354	25159
VERNON-W - QUENBRDG	31281	312	542	602	353	25160
VLY STRM - BARRETT	291	233	289	364	9	25312
VLY STRM - BARRETT	292	233	289	364	10	25313
VLY STRM - E.G.C.	262	218	275	353	30	25244
VOLNEY - CLAY	6	1032	1284	1434	838	25198
VOLNEY - MARCY T1	VU-19	1434	1793	1912	909	25345
VOLNEY - OSWEGO	12	1200	1326	1685	949	25201
VOLNEY - SCRIBA	21	1670	1912	1912	979	25314
W 49 ST - E15ST 45	M55	774	866	1291	237	25222
W 49 ST - E15ST 46	M54	774	866	1291	235	25228
W 49 ST - SPRBROOK	M52	774	866	1291	375	25223
W 49 ST - SPRBROOK	M51	774	866	1291	374	25053
W.HAV345 - BOWLINE1	67	687	747	747	164	25567
W.HAV345 - LADENTWN	67	1720	2214	2657	321	25248
W.HAV345 - W.HAVERS	BK#194	432	558	623	382	25447
W.HAVERS - BURNS 1	530/531	224	260	274	473	68644
W.HAVERS - W.HAV345	BK#194	432	558	623	382	25447
W.WDB115 - W.WDBR69	T152	48	50	50	467	25404
W.WDBR69 - W.WDB115	T152	48	50	50	467	25404
WARREN - FALCONER	171	82	120	136	673	25015
WATRC230 - HILSD230	69	504	584	657	581	25181
WATRC230 - WATRC345	BK#1	452	584	600	634	25402
WATRC345 - HOMER CY	30	926	927	927	635	25018
WATRC345 - OAKDL345	31	926	1076	1076	613	25178
WATRC345 - WATRC230	BK#1	452	584	600	634	25402
WHITMAN - ONEIDA	3	125	143	154	855	25894
WILET115 - E.NOR115	945	108	128	145	531	25732
WILET115 - ETNA 115	945	108	128	145	540	25731
WILL 115 - MALONE	WM-1	129	159	175	906	25586
WILL 115 - WILLIS E	WIL-AT1	150	184	216	984	25388
WILL 115 - WILLIS W	WIL-AT2	150	184	216	983	25390
WILLIS E - MOSES W	MW-2	349	418	512	927	25188
WILLIS E - PLAT T#1	WP-1	170	203	249	967	25272
WILLIS E - WILL 115	WIL-AT1	150	184	216	984	25388
WILLIS W - MOSES W	MW-1	349	418	512	926	25271
WILLIS W - PLAT T#4	WP-2	170	203	249	956	25273
WILLIS W - WILL 115	WIL-AT2	150	184	216	983	25390
WILOWBK1 - FR-KILLS	29212	169	271	452	281	25319
WILOWBK2 - FR-KILLS	29211	169	271	452	282	25320
WOOD A - FISHKILL	F39	1839	2606	3400	271	25368
WOOD A - PL VILLW	Y87	1839	2605	3105	352	25132
WOOD B - MILLWOOD	W80	1720	2214	2657	326	25148
WOOD B - PLTVLLEY	F30	1720	2214	2657	346	25237
WOODA345 - WOODS115	BK#1	327	409	420	384	25437

NYISO SUMMER 2001 OPERATING STUDY  
SUMMER ONLINE RATINGS

LINE NAME	LINE_ID	NORMAL	LTE	STE	MGF_NO	PTID
WOODB345 - WOODS115	BK#2	325	406	420	383	25438
WOODS115 - AMWLK115	996	215	247	275	327	25574
WOODS115 - WOODA345	BK#1	327	409	420	384	25437
WOODS115 - WOODB345	BK#2	325	406	420	383	25438
WYANT115 - REY. RD.	13	186	214	237	1052	69928
ZRMN-130 - DURZ-130	130	168	181	206	764	69855
ZRMN-130 - HUNTLEY1	129	168	181	199	705	69426

**APPENDIX E**  
**INTERFACE DEFINITIONS**  
**and**  
**GENERATION CHANGES ASSUMED**  
**FOR THERMAL ANALYSIS**



NYISO OPERATING INTERFACES & OASIS TRANSMISSION PATHS

<b>CENTRAL EAST</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
Edic-New Scotland*	14	345
Marcy-New Scotland*	UNS-18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
*Plattsburgh - Grand Isle	PV-20	115
East Springfield - Inghams*	942	115
Inghams Bus Tie	PAR	115

<b>TOTAL EAST</b>		
<b>Central-Capital/MidHudson</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
Coopers-Shoemaker Tap*		345
Coopers-Rock Tavern*	CCRT-42	345
Edic-New Scotland*	14	345
*Fraser-Gilboa	35	345
Marcy-New Scotland*	UNS-18	345
Porter-Rotterdam*	30	230
Porter-Rotterdam*	31	230
East Springfield - Inghams*	941	115
Inghams Bus Tie	PAR	115
West Woodbourne*115/69	T152	BK
<b>PJM East-Capital/MidHudson</b>		
Branchburg-Ramapo*	5018	500
*Waldwick- S.Mahwah	J3410	345
* Waldwick-S.Mahwah	K3411	345
<b>PJM East-New York City</b>		
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<b>Adirondack-ISO-NE</b>		
*Plattsburgh-Grand Isle	PV-20	115

<b>MOSES SOUTH</b>		
<b>Adirondack-Central</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Massena-Marcy	MSU1	765
*Moses-Adirondack	MA-1	230
*Moses-Adirondack	MA-2	230
*Dennison-Colton	4	115
*Dennison-Colton	5	115
*Alcoa-N. Ogdensburg	13	115
Malone-Colton*	3	115

\* indicates the metered end of circuit

<b>DYSINGER EAST</b>		
<b>Frontier-Genesee</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*AES Somerset-Rochester (Sta 80)	SR-1/39	345
Niagara-Rochester*	NR2	345
*Stolle-Meyer	67	230
Palmeter - Bennett*	932	115
*Lockport-Batavia	107	115
*Lockport-N. Akron	108	115
*Lockport-Oakfield	112	115
*Lockport-Sweden 1	111	115
*Lockport-Sweden 3	113	115
*Lockport-Telegraph	114	115

<b>WEST CENTRAL</b>		
<b>Genesee-Central</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
Pannell Road-Clay	PC-1	345
Pannell Road-Clay*	PC-2	345
*Stolle-Meyer	67	230
Palmeter-Bennett*	932	115
Macedon-Quaker*	930	115
*Mortimer-Elbridge	1	115
*Mortimer-Elbridge	2	115
*Pannell-Farmington	4	115
*Station 121-Sleight Road		115
St. 162 - S. Perry	906	115
*Clyde 199-Sleight Rd		115
Clyde 199-Clinton Corn		115
*Farmington (RGE-NMPC)		
(Farmington 34.5/115kV)	#1	34.5/115
(Farmington 34.5/ 115kV)	#4	34.5/115

<b>UPNY-CONED</b>		
<b>Capital/MidHudson-Westchester</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
Ladentown-Buchanan South*	Y88	345
*Pleasant Valley-Wood St.	F30	345
*Pleasant Valley-E. Fishkill	F36	345
*Pleasant Valley-E. Fishkill	F37	345
*Pleasant Valley-Millwood	F31	345
*Ramapo-Buchanan North	Y94	345
Roseton-E. Fishkill*	305	345
*Fishkill Plains - Sylvan Lake	A/990	115
East Fishkill *345/115	F33	345
East Fishkill 115/345		115/345

\* indicates the metered end of circuit

<b>SPRAINBROOK-DUNWOODIE SOUTH</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage(kV)</b>
*Dunwoodie-Rainey	71	345
*Dunwoodie-Rainey	72	345
Sprainbrook-Tremont*	28	345
*Sprainbrook-West 49th Street	M51	345
*Sprainbrook-West 49th Street	M52	345
*Lake Success-Jamaica	903	138
*Valley Stream-Jamaica	901L/M	138
*Dunwoodie-Sherman Creek	99031	138
Dunwoodie-Sherman Creek*	99032	138
*Dunwoodie-East 179th Street	99153	138

<b>NYISO-ISO-NE</b>		
<b>Adirondack-ISO-NE</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Plattsburgh-Grand Isle	PV-20	115
<b>Capital/MidHudson-ISO-NE</b>		
*Alps-Berkshire	393	345
*Pleasant Valley-Long Mnt.	398	345
Rotterdam-Bear Swamp*	E205W	230
North Troy-Bennington*	6	115
*Whitehall-Rutland (Velco)	7/K37	115
<b>Long Island-ISO-NE</b>		
*Northport-Norwalk	1385	138

<b>PJM-NYISO</b>		
<b>PJM East-New York City</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
Hudson-Farragut*	C3403	345
Hudson-Farragut*	B3402	345
Linden-Goethals*	A2253	230
<b>PJM West-Central</b>		
*Homer City-Watercure	30	345
E. Towanda-Hillside*	70	230
Tiffany-Goudey*	952	115
*E. Sayre-N. Waverly	956	115
<b>PJM West-Frontier</b>		
*Homer City-Stolle Road	37	345
Erie South-South Ripley*	69	230
*Warren-Falconer	171	115
<b>PJM East-Capital/MidHudson</b>		
Branchburg-Ramapo*	5018	500
*Waldwick-S.Mahwah	J3410	345
*Waldwick-S.Mahwah	K3411	345

\* indicates the metered end of circuit

<b>IMO (Ontario)-NYISO</b>		
<b>Ontario East-Adirondack</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
St. Lawrence-Moses*	L33P	240
St.Lawrence-Moses*	L34P	230
<b>Ontario South-Frontier</b>		
Beck-Niagara*	PA301	345
Beck-Niagara*	PA302	345
Beck-Niagara*	PA27	230
*Beck-Packard	BP76	230

<b>CONED - LIPA</b>		
<b>Westchester - Long Island</b>		
<b>Name</b>	<b>Line ID</b>	<b>Voltage (kV)</b>
*Dunwoodie -Shore Road	Y50	345
*Sprainbrook-East Garden City	Y49	345
<b>New York City - Long Island</b>		
Jamaica-Valley Stream*	901L/M	138
Jamaica-Lake Success*	903	138

\* indicates the metered end of circuit

GENERATION PARTICIPATION FOR INTERFACES

DYSINGER EAST, WEST CENTRAL

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->				
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
80900	LAKEVWG518.0	92.4	1092.4	1000.0	74190	ROSE GN124.0	331.3	251.3	-80.0
					74702	RAV 3	22.0	966.3	706.3
					74703	AK 2	20.0	335.0	255.0
					74705	AST 4	20.0	361.0	281.0
					74907	NRTPTG2	22.0	358.0	258.0
					74908	NRTPTG3	22.0	358.0	258.0
					79391	BOWLIN2020.0	165.0	45.0	-120.0
					79546	POLETTI	26.0	818.7	638.7
									-180.0

UPNY-CONED, SPRAINBROOK/DUNWODIE SOUTH

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->				
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
80900	LAKEVWG518.0	92.4	317.4	225.0	74190	ROSE GN124.0	331.3	291.3	-40.0
81422	LENNOXG220.0	550.0	825.0	275.0	74702	RAV 3	22.0	966.3	836.3
					74703	AK 2	20.0	335.0	295.0
					74705	AST 4	20.0	361.0	321.0
					74907	NRTPTG2	22.0	358.0	308.0
					74908	NRTPTG3	22.0	358.0	308.0
					79391	BOWLIN2020.0	165.0	105.0	-60.0
					79546	POLETTI	26.0	818.7	728.7
									-90.0

MOSES - SOUTH

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->				
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
79513	MOS17-1813.8	102.4	202.4	100.0	74702	RAV 3	22.0	966.3	946.3
79516	MOS21-2213.8	114.0	214.0	100.0	76641	DUNKGEN413.8	185.0	165.0	-20.0
					77051	HNTLY68G13.8	185.0	165.0	-20.0
					77951	9M PT 1G23.0	607.2	507.2	-100.0
					79546	POLETTI	26.0	818.7	778.7
									-40.0

GENERATION PARTICIPATION FOR INTERFACES

CONED - LONG ISLAND POWER AUTHORITY

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->						
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->						
BUS	BUS	NAME	BASE	SHIFT	CHANGE	BUS	BUS	NAME	BASE	SHIFT	CHANGE
74190	ROSE	GN124.0	331.3	431.3	100.0	74900	BARETG1	20.0	176.0	86.0	-90.0
74302	ER G7	13.2	166.0	199.3	33.3	74907	NRTPTG2	22.0	358.0	238.0	-120.0
74700	AK 3	22.0	491.0	557.7	66.7	74908	NRTPTG3	22.0	358.0	238.0	-120.0
74705	AST 4	20.0	361.0	394.3	33.3	74909	NRTPTG4	22.0	358.0	238.0	-120.0
74706	AST 5	20.0	361.0	427.7	66.7	74942	NYPA108	13.8	90.0	40.0	-50.0
74707	RAV 1	20.0	385.0	485.0	100.0						
79546	POLETTI	26.0	818.7	918.7	100.0						

ONTARIO - NEW YORK

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->						
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->						
BUS	BUS	NAME	BASE	SHIFT	CHANGE	BUS	BUS	NAME	BASE	SHIFT	CHANGE
81424	LENNOXG320.0		0.0	500.0	500.0	74190	ROSE	GN124.0	331.3	181.3	-150.0
81425	LENNOXG420.0		0.0	500.0	500.0	74702	RAV 3	22.0	966.3	566.3	-400.0
						76640	DUNKGEN313.8		190.0	140.0	-50.0
						77051	HNTLY68G13.8		185.0	135.0	-50.0
						78955	ALBY STM13.2		194.0	144.0	-50.0
						79547	JAFITZ1G24.0		848.8	548.8	-300.0

NEW YORK - ONTARIO

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->						
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->						
BUS	BUS	NAME	BASE	SHIFT	CHANGE	BUS	BUS	NAME	BASE	SHIFT	CHANGE
74190	ROSE	GN124.0	331.3	481.3	150.0	80898	LAKEVWG216.0		200.0	-50.0	-250.0
74193	DANSK	G416.1	233.0	383.0	150.0	80899	LAKEVWG116.0		300.0	50.0	-250.0
78955	ALBY	STM13.2	194.0	294.0	100.0	81764	NANTICG722.0		500.0	250.0	-250.0
79390	BOWLINE	20.0	165.0	615.0	450.0	81765	NANTICG622.0		500.0	250.0	-250.0
79546	POLETTI	26.0	818.7	968.7	150.0						

PJM - NYISO

<----- STUDY SYSTEM ----->				<----- OPPOSING SYSTEM ----->						
<---- GENERATOR MW ---->				<---- GENERATOR MW ---->						
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE	
356	PENNTECH13.8	45.0	68.4	23.4	74700	AK 3	22.0	491.0	285.0	-206.0
1735	PORT 5CT13.8	135.0	252.4	117.4	74702	RAV 3	22.0	972.0	766.0	-206.0
2901	GG A1&2 13.8	40.0	56.0	16.0	76641	DUNKGEN413.8	185.0	25.0	-160.0	
2902	GG A3&4 13.8	40.0	72.0	32.0	77950	9M PT 2G25.0	1212.0	612.0	-600.0	
2903	GG B5&6 13.8	40.0	56.0	16.0	77952	OSWGO 5G22.0	212.5	-227.5	-440.0	
2904	GG B7&8 13.8	40.0	72.0	32.0	79546	POLETTI 26.0	818.7	430.7	-388.0	
2918	GILCT1&213.8	23.0	59.0	36.0						
2919	GILCT3&413.8	50.0	86.0	36.0						
2922	RRCT3&4 13.8	114.0	200.7	86.7						
2937	O CRK C113.8	35.0	65.0	30.0						
2938	O CRK C213.8	35.0	65.0	30.0						
3150	MTN CK 324.0	807.0	1009.4	202.4						
3151	MTN CK 424.0	785.0	988.2	203.2						
4099	DELWARE713.8	126.0	196.1	70.1						
4100	DELWARE813.8	124.0	192.0	68.0						
4113	EDDYSTN324.0	265.5	290.9	25.4						
4283	SCHYLKL113.8	166.0	173.3	7.3						
4961	BERGEN 138	21.0	33.7	12.7						
5044	COGEN TE 138	0.0	1.1	1.1						
5066	KRNY9&1013.0	155.0	247.7	92.7						
5067	KEARNY1113.0	134.0	214.0	80.0						
5075	LINDN1-424.0	20.0	33.3	13.3						
5076	LINDEN 224.0	15.0	25.0	10.0						
5078	LINDEN I26.0	67.0	115.7	48.7						
5120	SEWAREN113.0	104.0	120.3	16.3						
5121	SEWAREN213.0	118.0	128.2	10.2						
5122	SEWAREN313.0	107.0	115.0	8.0						
5906	GOULD G313.8	104.0	136.5	32.5						
5907	N.C G1-413.8	64.0	109.4	45.4						
5908	N.C G5-813.8	64.0	109.4	45.4						
5914	RVRSDRG413.8	78.0	99.6	21.6						
5917	WAGNERG116.5	137.0	162.4	25.4						
5920	WAGNERG424.0	410.0	612.8	202.8						
6843	PENWD 4G13.8	37.8	38.9	1.1						
6844	PENWD 3G13.8	37.8	38.9	1.1						
6845	PENWD 2G13.8	38.0	39.1	1.1						
6846	PENWD 1G13.8	38.0	39.1	1.1						
7107	CHALK U424.0	612.0	614.1	2.1						

NYISO - PJM

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->						
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->						
BUS	BUS	NAME	BASE	SHIFT	CHANGE	BUS	BUS	NAME	BASE	SHIFT	CHANGE
74194	DANSK	G316.1	131.0	196.0	65.0	204	C.SLOPE	115	87.3	27.3	-60.0
74195	DANSK	G213.8	43.5	77.5	34.0	451	SEWARD	115	0.0	-120.0	-120.0
74196	DANSK	G113.8	38.3	69.9	31.6	1727	PORT2GEN15.5		176.2	-23.8	-200.0
74727	RNYGT4-713.8		41.3	68.9	27.6	2924	RR GEN4	13.8	114.0	14.0	-100.0
74728	RYYGT81113.8		0.0	30.0	30.0	3146	MONTUR	124.0	0.0	-100.0	-100.0
74758	AST E GT13.0		128.3	322.7	194.4	4062	CONOW3-413.8		18.2	-1.8	-20.0
74775	GOWAN1GT13.0		192.7	302.7	110.0	4193	MDYRN5-613.8		220.0	120.0	-100.0
74776	GOWAN3GT13.0		82.5	192.5	110.0	5167	HUDSON	224.0	600.0	320.0	-280.0
74777	GRNWD1GT13.0		40.5	99.7	59.2	5180	BERGENGT24.0		145.0	-15.0	-160.0
74778	GRNWD2GT13.0		40.5	99.7	59.2	5918	WAGNERG216.5		135.0	35.0	-100.0
74786	RNY 2EGT13.0		38.3	63.8	25.6	7116	MORGTU2	24.0	582.0	82.0	-500.0
74787	RNY 7EGT13.0		0.0	25.6	25.6	9219	IR4	26.0	419.9	159.9	-260.0
74788	RNY 7WGT13.0		38.3	63.8	25.6						
74789	RNY 9EGT13.0		0.0	25.6	25.6						
74903	SHRHM GT13.8		33.8	55.8	22.0						
74910	PTJEFG1	13.8	30.8	51.3	20.6						
74911	PTJEFG2	13.8	0.0	20.6	20.6						
74913	PTJEFG4	20.0	171.0	258.6	87.6						
74918	HOLT6-1013.8		233.0	298.4	65.4						
74919	HOLTS1-513.8		30.8	92.0	61.2						
74920	WADNGRV313.8		59.2	98.8	39.6						
74932	GLNWDGT213.8		0.0	22.6	22.6						
74933	GLNWDGT313.8		0.0	22.6	22.6						
75523	KINTIG2424.0		642.4	732.0	89.6						
77121	SENECAP	115	0.0	30.2	30.2						
77952	OSWGO 5G22.0		0.0	20.0	20.0						
77953	OSWGO 6G22.0		525.0	950.0	425.0						
77965	SITH-G1	18.0	170.0	177.0	7.0						
77966	SITH-G2	18.0	170.0	177.0	7.0						
77967	SITH-G3	18.0	170.0	177.0	7.0						
77968	SITH-G4	18.0	170.0	177.0	7.0						
77978	ESYR GT113.2		0.0	18.0	18.0						
78022	FT. DRUM	115	0.0	21.6	21.6						
79391	BOWLIN2020.0		165.0	279.4	114.4						
79657	JAMESTWN13.2		0.0	40.0	40.0						
79995	KAMIN	1313.8	0.0	27.6	27.6						

GENERATION PARTICIPATION FOR INTERFACES

NEW YORK - NEW ENGLAND

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->				
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
74190	ROSE GN124.0	331.0	631.0	300.0	71063	MYST G7 22.0	565.0	315.0	-250.0
74700	AK 3	22.0	491.0	691.0	200.0	71252 CANAL G218.0	576.0	276.0	-300.0
74702	RAV 3	22.0	967.9	1067.9	100.0	72868 NWNGT G124.0	422.0	172.0	-250.0
74707	RAV 1	20.0	385.0	485.0	100.0	73563 MILL#3 24.0	1136.7	936.7	-200.0
79391	BOWLIN2020.0	165.0	265.0	100.0					
79546	POLETTI 26.0	818.7	1018.7	200.0					

NEW ENGLAND - NEW YORK

<----- STUDY SYSTEM ----->					<----- OPPOSING SYSTEM ----->				
<---- GENERATOR MW ---->					<---- GENERATOR MW ---->				
BUS	BUS NAME	BASE	SHIFT	CHANGE	BUS	BUS NAME	BASE	SHIFT	CHANGE
71063	MYST G7 22.0	565.0	815.0	250.0	74193	DANSK G416.1	233.0	33.0	-200.0
71252	CANAL G218.0	576.0	876.0	300.0	74702	RAV 3 22.0	966.3	766.3	-200.0
72868	NWNGT G124.0	422.0	672.0	250.0	78955	ALBY STM13.2	194.0	-6.0	-200.0
73563	MILL#3 24.0	1136.7	1336.7	200.0	79546	POLETTI 26.0	818.7	418.7	-400.0

TABLE 1  
DISTRIBUTION FACTORS FOR DYSINGER EAST CIRCUITS  
Summer 2001

		% Pickup of Transfer	KINTI-ROCH	NIAGAR-ROCH	STOLLE-MEYER	LOCKPT-SOUR	LOCKPT-SHEL	NIAGAR-ROCH
STOLE230 230	MEYER230 230	1	13.2%	6.0%	7.2%	TRIP	6.4%	5.8%
GOLAHH66K66.0	MORT66KV66.0	1		0.3%	0.3%	0.3%	0.8%	0.7%
LOCKPORT 115	NAKR-108 115	1	1.3%	1.3%	1.6%	1.4%	4.2%	3.9%
LOCKPORT 115	OAKFLDTP 115	1	1.6%	1.6%	1.9%	1.7%	4.9%	4.6%
LOCKPORT 115	SOUR-111 115	1	3.3%	3.3%	4.0%	3.6%	TRIP	12.2%
LOCKPORT 115	SHEL-113 115	1	3.5%	3.5%	4.3%	3.8%	14.2%	TRIP
LOCKPORT 115	TELRDTP1 115	1	1.6%	1.6%	1.9%	1.7%	6.2%	6.7%
LOCKPORT 115	TELRDTP1 115	1	3.3%	3.4%	4.1%	3.7%	11.7%	19.4%
KINTI345 345	ROCH 345 345	1	29.3%	TRIP	45.7%	14.8%	14.9%	13.5%
NIAG 345 345	ROCH 345 345	1	43.0%	55.2%	TRIP	21.7%	21.9%	19.8%
<b>***SUB-TOTALS***</b>			-----	-----	-----	-----	-----	-----
<b>***L33P-L34P***</b>			76.2%	71.1%	52.6%	85.3%	86.7%	46.9%
<b>***PJM-NYISO***</b>			8.5%	10.3%	8.7%	4.4%	4.0%	19.0%
<b>***TOTALS***</b>			14.9%	18.1%	35.9%	10.5%	9.6%	33.3%
			-----	-----	-----	-----	-----	-----
			100.0%	99.6%	99.5%	97.2%	100.3%	100.2%
								99.1%

TABLE 2  
DISTRIBUTION FACTORS FOR WEST CENTRAL CIRCUITS

Summer 2001

			% Pickup of Transfer	PANNEL-CLAY	STOLLE-MEYER	S121-SLEGH	PANNEL-FARM	PANNEL-CLAY
PANNELL3	345	CLAY	345	1	36.3%	TRIP	10.8%	18.8%
PANNELL3	345	CLAY	345	2	36.4%	58.3%	10.8%	18.8%
STOLE230	230	MEYER230	230	1	13.2%	3.1%	TRIP	3.0%
MORTIMER	115	LAWLER-1	115	1	3.0%	2.6%	1.3%	4.0%
MORTIMER	115	LAWLER-2	115	1	3.2%	2.9%	1.1%	4.6%
S121	B#2	115	SLEIG115	115	1	2.9%	3.6%	2.0%
PANNELLI	115	FRMGTN-4	115	1	4.1%	6.2%	8.9%	18.1%
STA	162	S.PER115	115	1	0.5%	1.9%	17.1%	2.4%
QUAKER	115	MACDN115	115	1	0.3%	0.4%	0.3%	19.9%
<hr/>								
***SUB-TOTALS***				78.8%	52.3%	89.6%	88.9%	49.3%
***L33P-L34P***				7.6%	8.7%	3.1%	2.4%	18.2%
***PJM-NYISO***				13.4%	35.9%	6.6%	6.8%	32.0%
<hr/>				<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
***TOTALS***				100.0%	99.8%	96.9%	99.2%	98.0%
								99.5%

TABLE 3  
DISTRIBUTION FACTORS FOR TOTAL EAST CIRCUITS  
Summer 2001

		% Pickup of Transfer	PORTER- RTRDM	EDIC34- NSCOT	MARCY3- NSCOT	FRASER- GILBA	BRBURG- RAMPO	WALDWK- SMAWA	HUDSON- FARGT	LINDEN- GOETH	WALDWK- SMAWA	HUDSON- FARGT	
EDIC 345	N.SCOT77 345	1	18.8%	13.9%	TRIP	33.1%	19.5%	3.2%	0.2%	1.5%	2.6%	1.5%	2.2%
MARCY T1 345	N.SCOT99 345	1	20.3%	14.8%	35.0%	TRIP	21.0%	3.5%	0.2%	1.6%	2.8%	1.6%	2.3%
PORTER 2 230	ROTRDM.2 230	1	4.5%	TRIP	5.4%	5.5%	3.1%	0.7%	0.0%	0.3%	0.6%	0.3%	0.5%
PORTER 2 230	ROTRDM.2 230	2	4.6%	34.1%	5.6%	5.7%	3.2%	0.8%	0.0%	0.4%	0.6%	0.3%	0.5%
E.SPR115 115	INGHAM-E 115	1	0.9%	1.0%	-0.2%	-0.2%	2.5%	0.2%	0.0%	0.1%	0.1%	0.1%	0.1%
INGMS-CD 115	INGHAM-E 115	1	0.0%	9.6%	3.7%	3.7%	0.7%	0.4%	0.0%	0.2%	0.3%	0.2%	0.3%
PLAT T#3 115	GRAND IS 115	1	1.2%	2.7%	2.3%	2.4%	1.4%	0.6%	0.0%	0.3%	0.5%	0.3%	0.4%
FRASR345 345	GILB 345 345	1	16.1%	9.3%	22.9%	23.5%	TRIP	3.4%	0.1%	2.3%	3.6%	1.1%	3.3%
BRANCHBG 500	RAMAPO 5 500	1	0.0%	1.9%	3.2%	3.3%	2.9%	TRIP	2.9%	7.4%	20.8%	25.0%	10.9%
COOPC345 345	SHOEMTAP 345	1	17.1%	3.8%	6.9%	7.2%	18.3%	4.8%	0.3%	0.3%	1.5%	3.5%	0.4%
COOPC345 345	ROCK TAV 345	2	16.3%	3.7%	6.7%	7.0%	17.7%	4.4%	0.4%	0.4%	1.5%	3.1%	0.6%
HUDSON1 345	FARRGUT1 345	1	0.0%	1.0%	1.8%	1.8%	2.3%	8.6%	3.0%	TRIP	19.5%	26.7%	O/S
HUDSON2 345	FARRGUT2 345	1	0.0%	1.0%	1.7%	1.8%	2.3%	8.6%	2.9%	31.4%	19.9%	26.0%	TRIP
LINDEN 230	GOETHALS 230	1	0.0%	1.1%	1.9%	2.0%	2.3%	15.4%	1.2%	12.3%	TRIP	10.4%	18.4%
WALDWICK 345	SMAHWAH1 345	1	0.2%	0.8%	1.4%	1.4%	0.8%	22.8%	88.7%	21.2%	13.1%	O/S	30.6%
WALDWICK 345	SMAHWAH2 345	1	0.2%	0.8%	1.3%	1.3%	0.9%	22.6%	TRIP	20.4%	12.5%	TRIP	29.4%
<hr/>			<hr/>	<hr/>									
***TOALS***			100.0%	99.7%	99.6%	99.6%	99.0%	99.9%	100.0%	99.9%	99.9%	100.0%	99.9%

TABLE 4  
DISTRIBUTION FACTORS FOR UPNY-CONED CIRCUITS

Summer 2001										
		% Pickup of Transfer	PLVLLY- MILLW	PLVLLY- FISHK	RAMAPO- BUCHN	LADNTW- BUCHS	LINDEN- GOETH	HUDSON- FARGT	ROSETN- FISHK	
ROSETON 345	FISHKILL 345	1	20.1%	-11.4%	15.2%	15.8%	21.7%	9.5%	8.5%	TRIP
PLTVLLEY 345	MILLWOOD 345	1	17.4%	TRIP	8.8%	3.0%	12.6%	2.9%	1.9%	-8.9%
PLTVLLEY 345	FISHKILL 345	1	7.8%	24.0%	TRIP	-0.5%	-7.2%	1.1%	0.6%	32.4%
PLTVLLEY 345	FISHKILL 345	2	7.8%	24.0%	66.6%	-0.5%	-7.2%	1.1%	0.6%	32.4%
PLTVLLEY 345	WOOD B 345	1	17.2%	35.2%	9.2%	3.0%	12.2%	2.9%	1.9%	-8.6%
RAMAPO 345	BUCH N 345	1	13.5%	3.2%	-0.2%	TRIP	41.6%	16.6%	16.5%	13.2%
LADENTWN 345	BUCH S 345	1	13.4%	17.7%	-3.7%	54.9%	TRIP	24.0%	24.3%	23.8%
FISHKILL 115	SYLVN115 115	1	1.0%	0.8%	0.0%	0.3%	0.6%	0.3%	0.2%	0.5%
E FISH I 115	FISHKILL 345	1	1.8%	-0.5%	2.4%	0.7%	0.8%	0.6%	0.5%	5.9%
<hr/>										
***SUB-TOTALS***										
***LINDEN-GOETH***										
93.0%     98.3%     76.7%     75.3%     58.9%     55.0%     90.6%										
***HUDSON-FAR1***										
1.0%     0.1%     5.3%     5.8%     TRIP     12.3%     2.5%										
***HUDSON-FAR2***										
1.0%     0.1%     8.1%     9.0%     19.9%     31.4%     3.5%										
***NORHBR-NRPRT***										
4.1%     1.3%     1.6%     0.7%     1.7%     1.3%     -0.2%										
<hr/>										
***TOTALS***										
100.0%   100.0%   100.0%   100.0%   100.0%   100.0%   100.0%										

TABLE 5  
DISTRIBUTION FACTORS FOR SPRAINBROOK / DUNWOODIE SOUTH CIRCUITS  
Summer 2001

		% Pickup of Transfer	SPRAIN- TRMNT	SPRAIN- W49TH	DUNWDE- RAINY	DUNWDE- SHORE	SPRAIN- DVNPT	SPRAIN- W49TH	DUNWDE RAINY
DUN NO1R 138	S CREEK 138	1		12.8%	0.4%	0.6%	2.1%	1.6%	0.7%
DUN NO2R 138	S CREEK 138	1		13.1%	0.4%	0.6%	2.2%	1.6%	0.7%
DUN SO1R 138	E179 ST 138	1		18.7%	0.6%	0.8%	3.1%	2.3%	1.0%
DUNWODIE 345	RAINEY 345	3	28.6%	10.6%	23.7%	TRIP	10.0%	3.6%	42.9% O/S
DUNWODIE 345	RAINEY 345	4	28.6%	10.6%	23.7%	45.2%	10.0%	3.6%	42.9% TRIP
DUNWODIE 345	SHORE RD 345	1		5.4%	0.6%	1.2%	TRIP	53.3%	1.1%
SPRBROOK 345	TREMONT 345	1		TRIP	1.0%	1.0%	4.1%	3.4%	1.8%
SPRBROOK 345	W 49 ST 345	1	21.4%	10.4%	TRIP	23.2%	4.7%	7.4%	O/S 42.3%
SPRBROOK 345	W 49 ST 345	2	21.4%	10.4%	44.7%	23.2%	4.7%	7.4%	TRIP 42.3%
REACBUS 345	DVNPT NK 345	1		3.9%	0.8%	0.4%	46.5%	TRIP	1.5%
<hr/>									
***SUB-TOTALS***									
***LINDEN-GOETH***									
2.9%									
***HUDSON-FAR#1***									
0.1%									
***HUDSON-FAR#2***									
0.1%									
***NORHRBR-NRPRT***									
0.9%									
<hr/>									
***TOTALS***									
100.0%									

TABLE 6  
DISTRIBUTION FACTORS FOR MOSES SOUTH CIRCUITS

Summer 2001

		% Pickup of Transfer	MASSEN- MARCY	MASSEN- CHAT	MOSES2- ADRON	MOSES2- PORTR
MASS 765 765	MARCY765 765	1	74.1%	TRIP	67.2%	44.9%
DENNISON 115	ANDRWS-4 115	1	2.3%	4.4%	0.9%	1.5%
MOSES W 230	ADRON B1 230	1	9.5%	19.7%	3.4%	TRIP
MOSES W 230	ADRON B2 230	1	9.5%	19.7%	3.4%	36.5%
DENNISON 115	LWRNCE-B 115	1	2.3%	4.4%	0.9%	1.5%
ALCOA-NM 115	BRADY 115	1	1.1%	2.1%	0.4%	0.7%
ALLENS F 115	COLTON 115	1	1.3%	2.0%	0.3%	0.7%
<hr/>						
***SUB-TOTALS***						
***MOSES-L33P***						
***MOSES-L34P***						
***MOSES-WILLE***						
***MOSES-WILLW***						
<hr/>						
***TOTALS***						
		100.0%	102.0%	100.3%	100.7%	101.8%

TABLE 7  
DISTRIBUTION FACTORS FOR NYISO-ISONE CIRCUITS

Summer 2001

		% Pickup of Transfer	ALPS34-MANY	PV.345-LNGMT	NHHAR-GEN	VTYANK-GEN	YRMTH-GEN	SBRK-GEN	HIGATE-DC	EEL RIVER	MADWAS-DC
ALPS345 345	MANY393 345	1	36.4%	TRIP	40.2%	21.0%	43.8%	37.6%	37.2%	16.2%	37.6%
PLAT T#3 115	GRAND IS 115	1	1.9%	6.6%	4.0%	3.2%	5.6%	6.1%	6.0%	51.7%	6.1%
HOOSICK 115	BNNINGTN 115	1	2.9%	10.6%	2.9%	1.6%	2.5%	2.9%	2.9%	0.8%	2.9%
WHITEHAL 115	BLISSVIL 115	1	4.4%	8.9%	3.8%	2.0%	5.3%	4.5%	4.4%	8.8%	4.5%
ROTRDM.2 230	BRSWAMP 230	1	7.4%	16.8%	7.2%	4.4%	6.6%	8.0%	8.1%	2.5%	8.0%
PLTVLLEY 345	CTNY398 345	1	47.1%	43.8%	TRIP	46.5%	26.2%	29.8%	30.1%	14.0%	29.8%
NRTHPT P 138	NORHR138 138	1	0.0%	11.9%	38.2%	19.9%	9.2%	10.2%	10.3%	5.6%	10.2%
<b>***TOTALS***</b>			-----	-----	-----	-----	-----	-----	-----	-----	-----
			100.0%	98.5%	96.3%	98.6%	99.2%	99.1%	99.1%	99.6%	99.1%

TABLE 8  
DISTRIBUTION FACTORS FOR ONTARIO-NYISO CIRCUITS

		Summer 2001								
		% Pickup of Transfer	PA27- NIAGAR	BP76- PACKD2	STLAWR- MOSES	STLAWR- MOSES	BECKB- NIAGAR			
STLAWL34	230	MOSES E	230	1	1.2%	1.2%	TRIP	55.7%	1.4%	
STLAWL33	230	MOSES E	230	1	1.0%	1.1%	51.9%	TRIP	1.2%	
BECK B	345	NIAG	345 345	1	31.1%	33.7%	30.8%	9.7%	8.9%	TRIP
BECK A	345	NIAG	345 345	1	31.1%	33.7%	30.8%	9.7%	8.9%	52.7%
PA27 REG	230	NIAGAR2W	230	1	20.1%	TRIP	31.3%	5.8%	5.4%	23.2%
BP76 REG	230	PACKARD2	230	1	17.7%	26.1%	TRIP	5.0%	4.6%	17.6%
<b>***SUB-TOTALS***</b>				-----	-----	-----	-----	-----	-----	
<b>***IMO-MICH***</b>				95.7%	95.2%	82.0%	83.4%	96.1%		
<b>***TOTALS***</b>				4.0%	4.5%	16.7%	15.4%	3.7%		
				-----	-----	-----	-----	-----	-----	
				100.0%	99.8%	99.7%	98.7%	98.8%	99.8%	

TABLE 9  
DISTRIBUTION FACTORS FOR PJM-NYISO CIRCUITS  
Summer 2001

		% Pickup of Transfer	ERIESO- FALCS	HMRCTY- STOLL	HMRCTY- WATER	E.TOWD- HILLS	BRBURG- RAMPO	WALDWK- SMAWA	HUDSON- FARGT	LINDEN- GOETH	WALDWK- SMAWA	HUDSON- FARGT	
ERIE E 230	S RIPLEY 230	1	21.0%	TRIP	21.6%	7.4%	4.7%	2.4%	0.1%	0.8%	1.5%	1.2%	1.1%
WARREN 115	FALCONER 115	1	7.0%	22.0%	8.4%	1.8%	3.0%	0.8%	0.0%	0.3%	0.5%	0.4%	0.4%
HOMER CY 345	STOLE345 345	1	13.7%	15.5%	TRIP	15.3%	2.0%	1.7%	0.1%	0.6%	1.1%	0.9%	0.8%
HOMER CY 345	WATRC345 345	1	21.3%	6.5%	18.7%	TRIP	13.4%	3.8%	0.2%	1.1%	2.4%	1.9%	1.7%
E.TWANDA 230	HILSD230 230	1	22.5%	6.0%	3.5%	19.5%	TRIP	3.5%	0.3%	1.4%	2.3%	2.3%	2.0%
E.SAYRE 115	N.WAV115 115	1	8.2%	2.0%	1.4%	4.1%	30.7%	1.3%	0.1%	0.5%	0.9%	0.8%	0.7%
LAUREL L 115	GOUDY115 115	1	6.4%	0.9%	0.7%	2.2%	11.4%	1.0%	0.1%	0.4%	0.7%	0.7%	0.6%
BRANCHBG 500	RAMAPO 5 500	1		6.4%	6.6%	11.6%	7.4%	TRIP	2.9%	7.4%	20.8%	25.0%	10.9%
HUDSON1 345	FARRGUT1 345	1		2.4%	2.5%	4.1%	3.4%	8.6%	3.0%	TRIP	19.5%	26.7%	O/S
HUDSON2 345	FARRGUT2 345	1		2.4%	2.5%	4.1%	3.3%	8.6%	2.9%	31.4%	19.9%	26.0%	TRIP
LINDEN 230	GOETHALS 230	1		3.0%	3.1%	5.4%	3.6%	15.4%	1.2%	12.3%	TRIP	10.4%	18.4%
WALDWICK 345	SMAHWAH1 345	1		3.1%	3.2%	5.5%	4.6%	22.8%	88.7%	21.2%	13.1%	O/S	30.6%
WALDWICK 345	SMAHWAH2 345	1		2.9%	2.9%	5.0%	4.3%	22.6%	TRIP	20.4%	12.5%	TRIP	29.4%
<hr/>													
***SUB-TOTALS***													
***IMO-MICH***													
<hr/>													
***TOTALS***													
		100.0%	98.5%	98.5%	99.2%	99.5%	99.5%	100.0%	99.8%	99.7%	99.8%	99.8%	

TABLE 10A  
GENERATION SHIFT FACTORS WITH ALL PAR'S HOLDING MW FLOW

Summer 2001

	WEST-CENTRAL	UTICA-ALBANY	MARCY-SOUTH	CENTRAL-EAST	BBURG-RAMAPO	IMO-NYISO	PJM-NYISO
ALBANY	11.8%	21.7%	-6.5%	24.2%	0.0%	7.2%	14.4%
BB-RAMAPO	13.5%	14.0%	5.6%	14.9%	-100.0%	5.0%	-70.2%
BECK	-49.5%	-24.2%	-13.1%	-25.2%	0.0%	-70.1%	19.2%
BOWEN	-10.4%	-8.3%	-3.6%	-8.8%	0.0%	-6.1%	-13.9%
BOWLINE	7.7%	4.8%	3.8%	5.1%	0.0%	4.7%	9.7%
BRANDON	-14.2%	-13.3%	-5.5%	-14.1%	0.0%	-6.1%	-26.5%
BRAYTON	10.5%	15.4%	-3.7%	18.2%	0.0%	6.5%	12.9%
CHAT	16.3%	-41.7%	-28.0%	-43.7%	0.0%	9.8%	17.9%
CONEMAUGH	-14.8%	-14.0%	-5.7%	-14.8%	0.0%	-5.5%	-28.8%
DUNKIRK	-40.3%	-21.2%	-10.6%	-22.3%	0.0%	14.0%	39.0%
EDDYSTONE	-13.6%	-13.9%	-5.6%	-14.8%	0.0%	-5.1%	-29.4%
GILBOA	11.6%	8.6%	2.8%	8.5%	0.0%	7.2%	15.3%
HATFIELD	-15.4%	-13.3%	-5.6%	-14.1%	0.0%	-7.1%	-25.2%
HUDSON	-13.1%	-14.1%	-5.6%	-15.0%	0.0%	-4.8%	-30.4%
HUNTLEY	-49.7%	-24.0%	-12.7%	-25.1%	0.0%	23.2%	25.6%
INDIANPT2	7.4%	4.8%	3.4%	5.1%	0.0%	4.6%	9.4%
JEAMOS	-15.5%	-12.3%	-5.3%	-13.0%	0.0%	-9.2%	-20.1%
LAMBTON	-30.4%	-17.5%	-8.7%	-18.4%	0.0%	-35.4%	-3.4%
LUDINGTON	-19.7%	-13.6%	-6.3%	-14.3%	0.0%	-16.8%	-14.7%
MONROE	-24.6%	-15.4%	-7.4%	-16.2%	0.0%	-25.0%	-10.1%
MTSTORM	-14.8%	-12.9%	-5.4%	-13.6%	0.0%	-7.1%	-24.1%
NANTICOKE	-41.2%	-21.3%	-11.2%	-22.2%	0.0%	-55.0%	9.4%
NEWTON	-14.3%	-10.9%	-4.8%	-11.5%	0.0%	-9.6%	-16.1%
NIAGARA	-51.0%	-24.6%	-13.2%	-25.7%	0.0%	22.7%	25.2%
NORWALK	8.5%	9.6%	0.1%	10.7%	0.0%	5.2%	10.6%
OSWEGO	19.3%	-37.0%	-23.4%	-38.0%	0.0%	11.5%	19.6%
PORTLAND	-12.8%	-14.2%	-5.6%	-15.2%	0.0%	-4.6%	-31.0%
ROSETON	8.8%	6.6%	3.5%	6.9%	0.0%	5.5%	11.2%
SALEM	-13.7%	-13.9%	-5.6%	-14.8%	0.0%	-5.2%	-29.2%

TABLE 10B  
GENERATION SHIFT FACTORS WITH PAR'S FREE FLOWING

Summer 2001

	WEST-CENTRAL	UTICA-ALBANY	MARCY-SOUTH	CENTRAL EAST	BBURG-RAMAPO	IMO-NYISO	PJM-NYISO
ALBANY	8.5%	19.7%	-6.9%	25.0%	3.2%	9.1%	22.6%
BB-RAMAPO	5.7%	5.9%	3.9%	6.7%	-100.0%	4.6%	23.8%
BECK	-39.7%	-21.3%	-12.5%	-24.0%	-3.6%	-69.8%	7.8%
BOWEN	-4.8%	-4.5%	-2.0%	-5.2%	-6.1%	-5.3%	-31.0%
BOWLINE	3.4%	2.2%	2.4%	2.5%	8.6%	4.1%	34.4%
BRANDON	-4.1%	-5.0%	-1.8%	-5.7%	-12.8%	-2.7%	-62.8%
BRAYTON	6.9%	12.9%	-4.3%	18.8%	3.6%	8.0%	22.4%
CHAT	8.7%	-35.3%	-24.3%	-40.6%	0.8%	16.3%	17.9%
CONEMAUGH	-4.9%	-5.9%	-2.1%	-6.7%	-12.3%	-2.3%	-63.9%
DUNKIRK	-32.1%	-16.9%	-9.0%	-19.0%	-5.5%	15.3%	22.3%
EDDYSTONE	-1.6%	-3.2%	-0.6%	-3.7%	-16.4%	-0.1%	-76.2%
GILBOA	8.7%	8.6%	3.0%	8.8%	3.1%	8.8%	23.2%
HATFIELD	-6.3%	-6.6%	-2.7%	-7.5%	-10.5%	-4.9%	-54.9%
HUDSON	2.0%	0.9%	1.2%	1.0%	-0.9%	2.8%	-104.6%
HUNTLEY	-41.3%	-20.6%	-11.7%	-23.1%	-3.9%	24.0%	13.4%
INDIANPT2	3.3%	2.3%	2.1%	2.6%	7.6%	3.9%	30.9%
JEAMOS	-7.4%	-6.9%	-3.1%	-7.9%	-8.6%	-8.1%	-44.1%
LAMBTON	-18.2%	-14.0%	-7.9%	-16.0%	-6.1%	-35.0%	-21.5%
LUDINGTON	-11.0%	-9.2%	-4.7%	-10.5%	-7.5%	-17.0%	-35.4%
MONROE	-14.5%	-11.5%	-6.2%	-13.2%	-6.9%	-25.5%	-29.3%
MTSTORM	-5.8%	-6.1%	-2.5%	-6.9%	-10.6%	-4.8%	-54.0%
NANTICOKE	-26.2%	-19.3%	-11.5%	-22.1%	-4.2%	-56.2%	-3.7%
NEWTON	-7.3%	-6.6%	-3.1%	-7.5%	-7.1%	-9.3%	-35.9%
NIAGARA	-43.0%	-21.2%	-12.1%	-23.7%	-3.7%	23.6%	13.5%
NORWALK	4.8%	6.9%	-0.4%	8.9%	4.0%	5.5%	21.5%
OSWEGO	17.9%	-33.4%	-21.7%	-36.5%	0.5%	14.4%	19.6%
PORTRLAND	-0.1%	-2.5%	-0.2%	-2.9%	-11.2%	1.2%	-88.0%
ROSETON	5.3%	5.0%	2.8%	5.5%	5.1%	5.8%	25.4%
SALEM	-1.6%	-3.2%	-0.7%	-3.6%	-16.3%	-0.1%	-75.8%

## **APPENDIX F**

### **ANNOTATED TLTG OUTPUT**

**This Section Is Available  
On Computer Diskette If Requested**



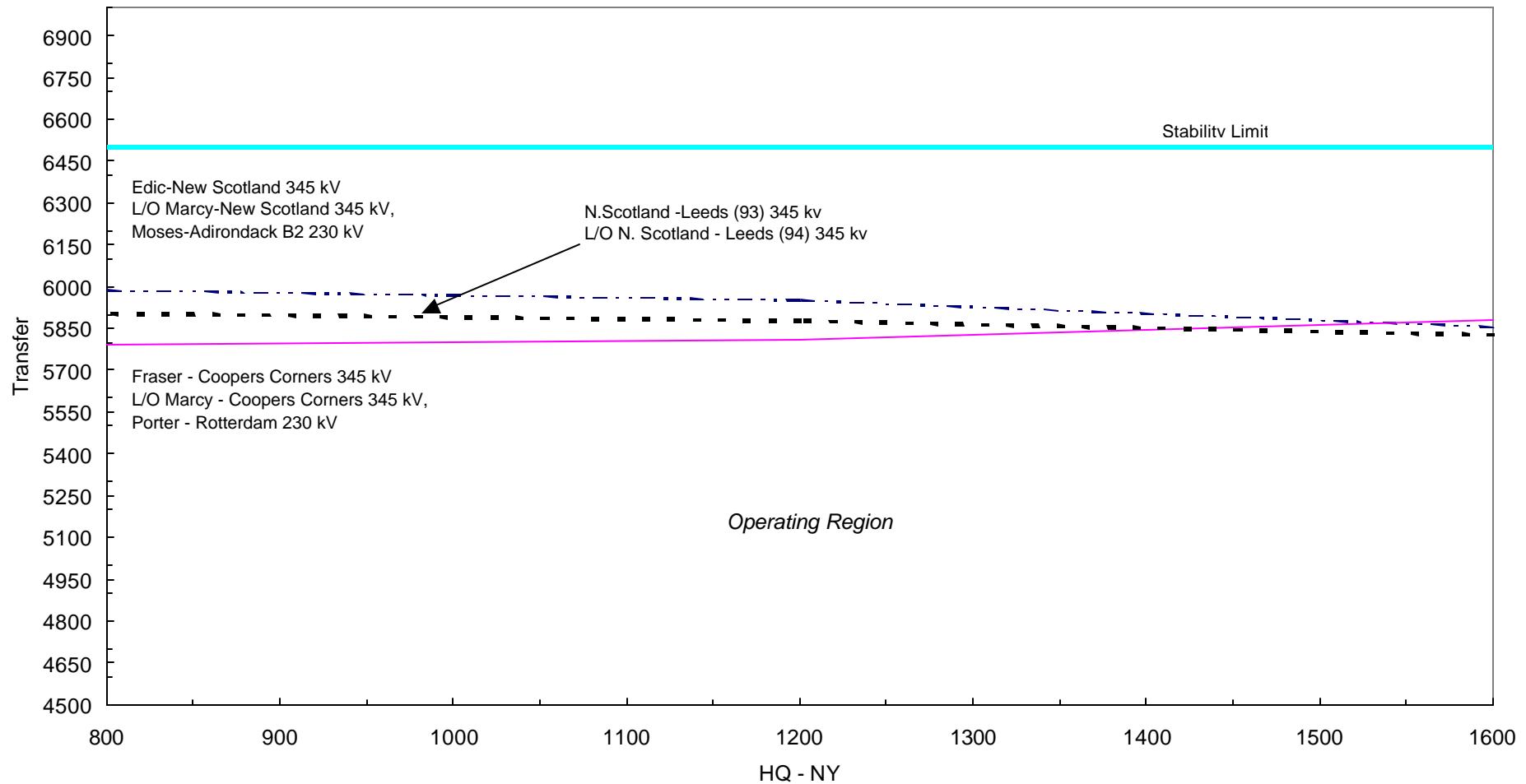
**APPENDIX G**  
**TRANSFER LIMIT SENSITIVITY GRAPHS**



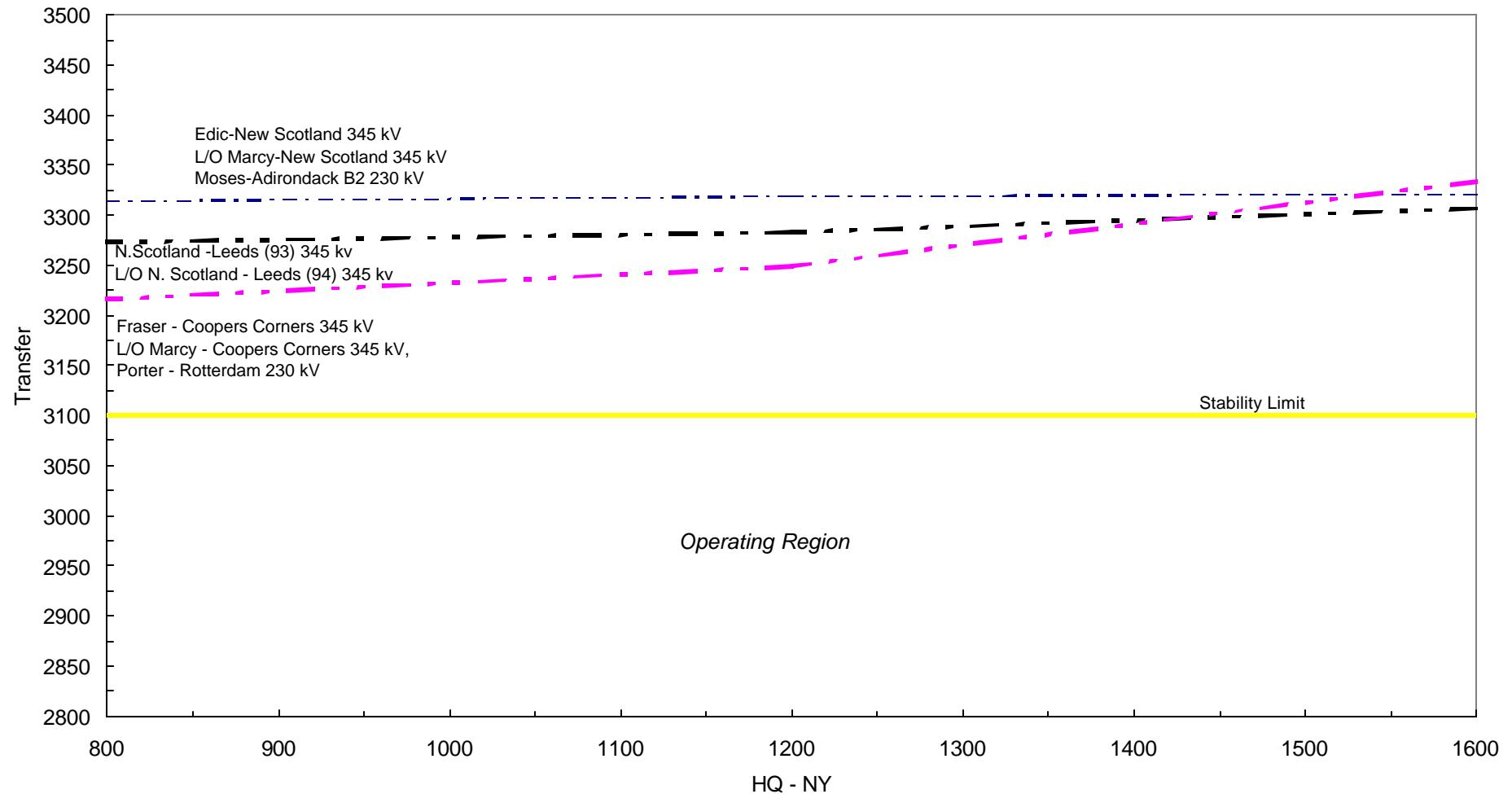
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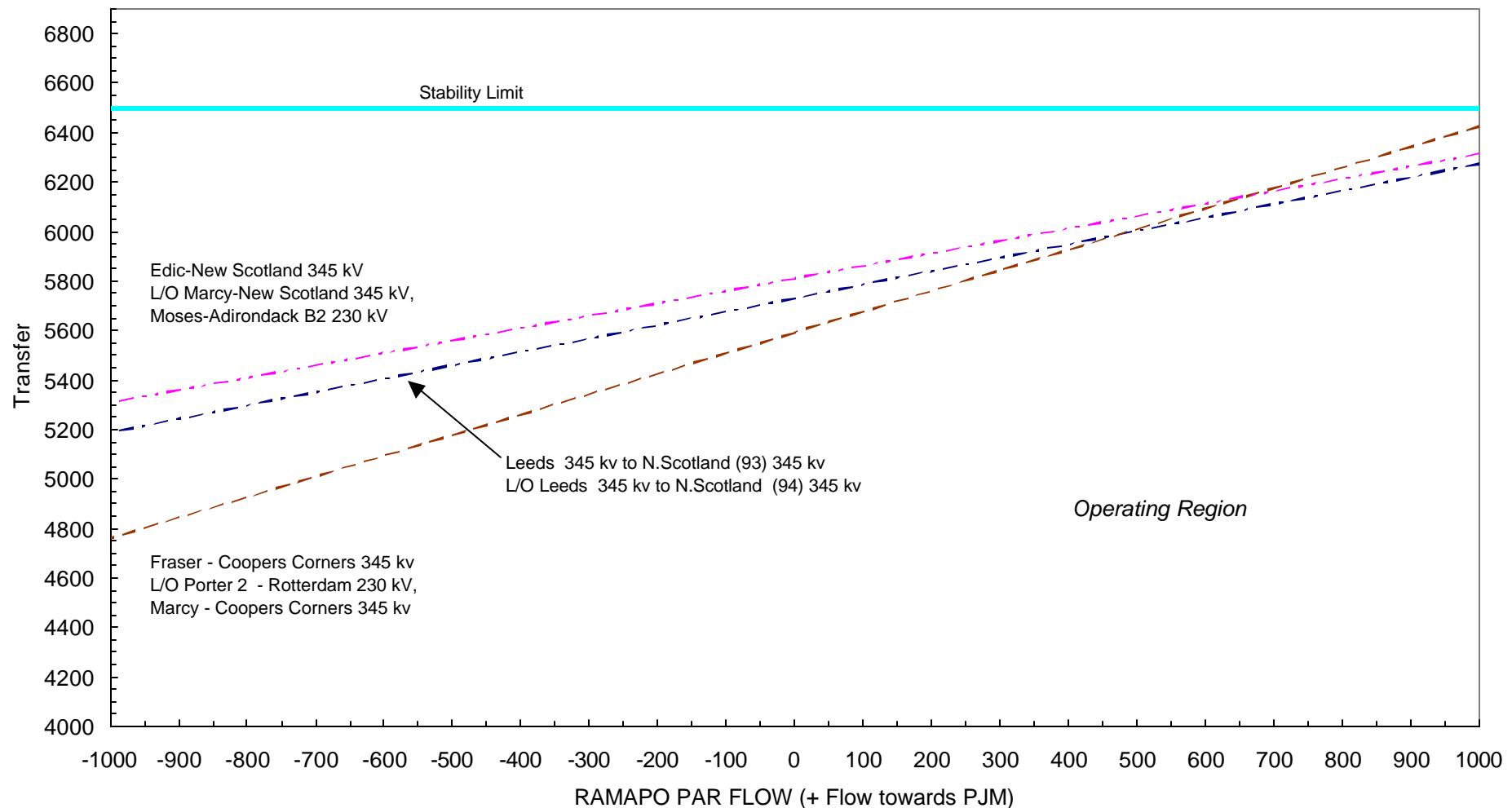
**Total East vs. HQ**  
**For Normal Transfer Criteria**  
**Summer 2001**



**Central East vs. HQ**  
**For Normal Transfer Criteria**  
**Summer 2001**



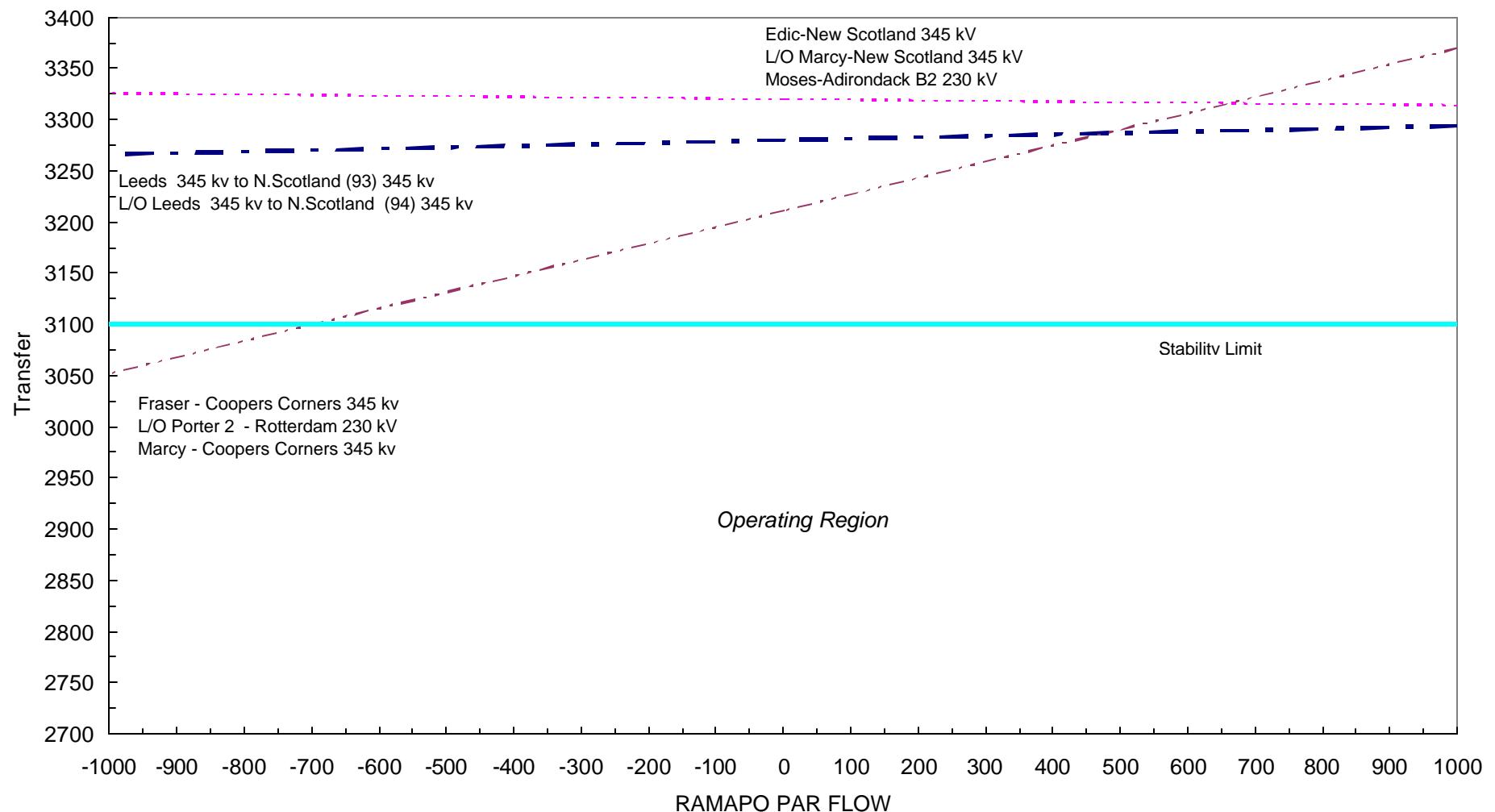
**Total East vs. RAMAPO PAR Flow**  
**For Normal Transfer Criteria**  
**Summer 2001**



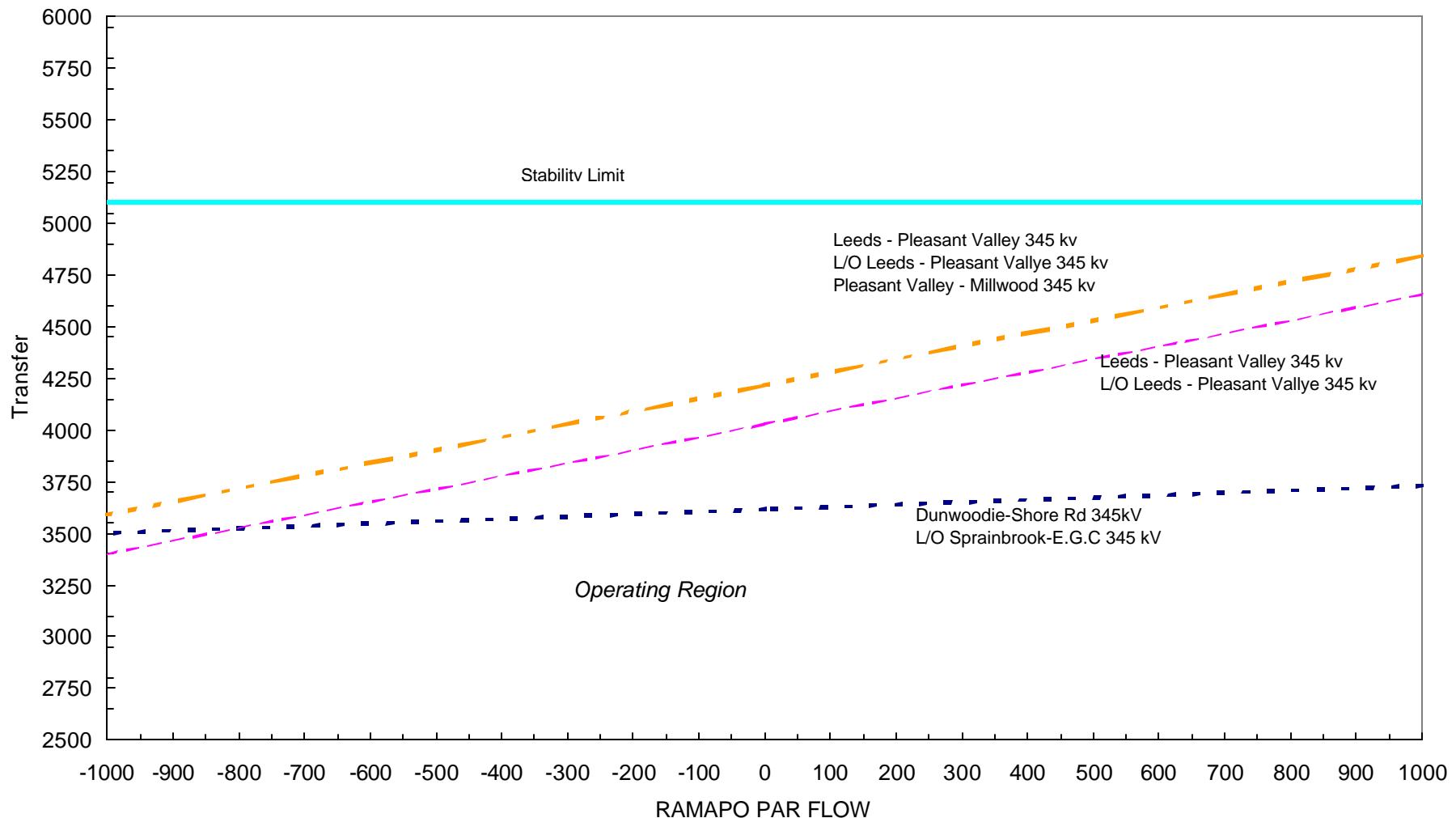
## Central East vs. RAMAPO PAR Flow

For Normal Transfer Criteria

Summer 2001



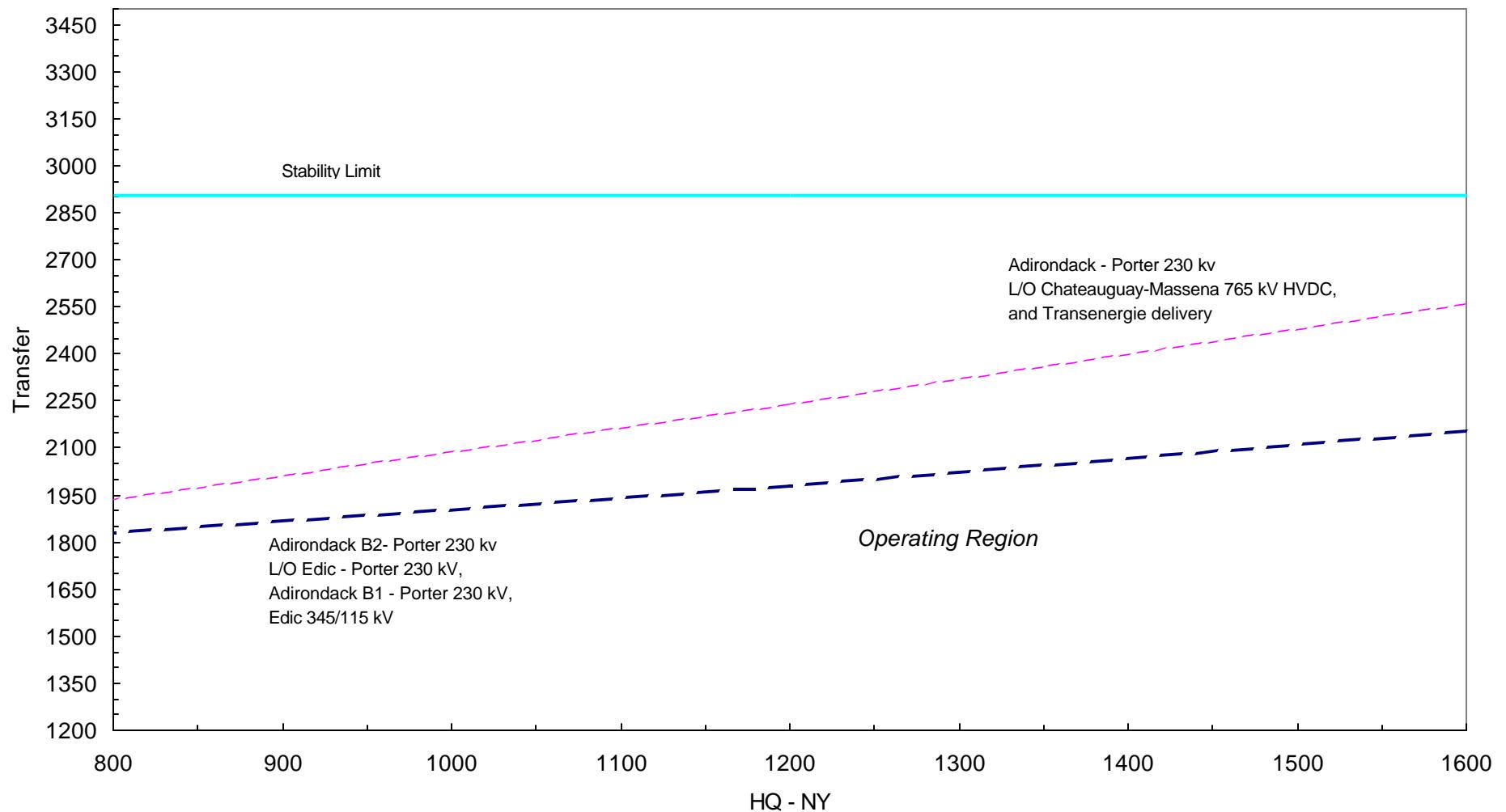
**UPNY CONED vs. RAMAPO PAR Flow**  
**For Normal Transfer Criteria**  
**Summer 2001**



## Moses South vs. HQ Export to New York

For Normal Transfer Criteria

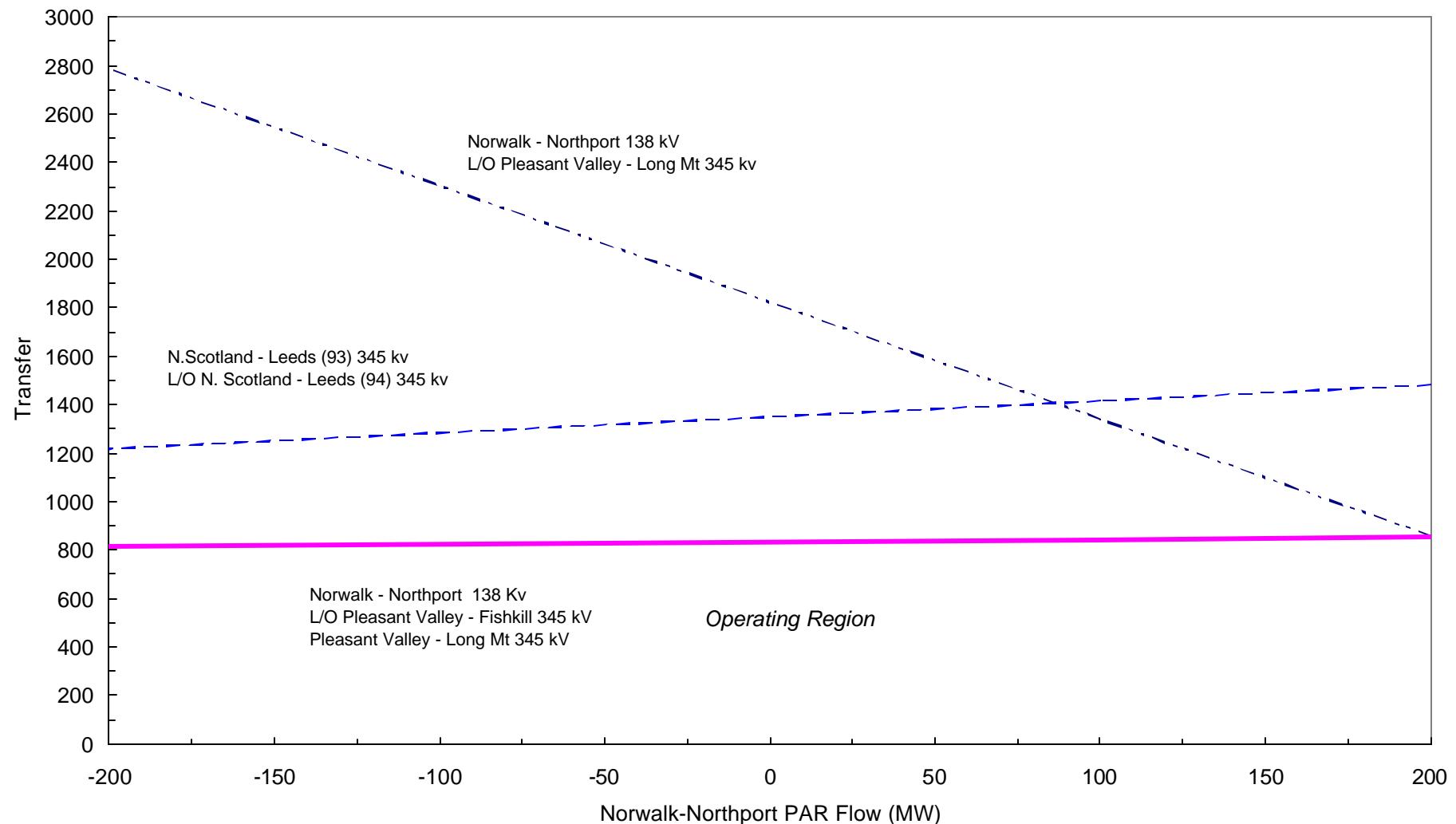
Summer 2001



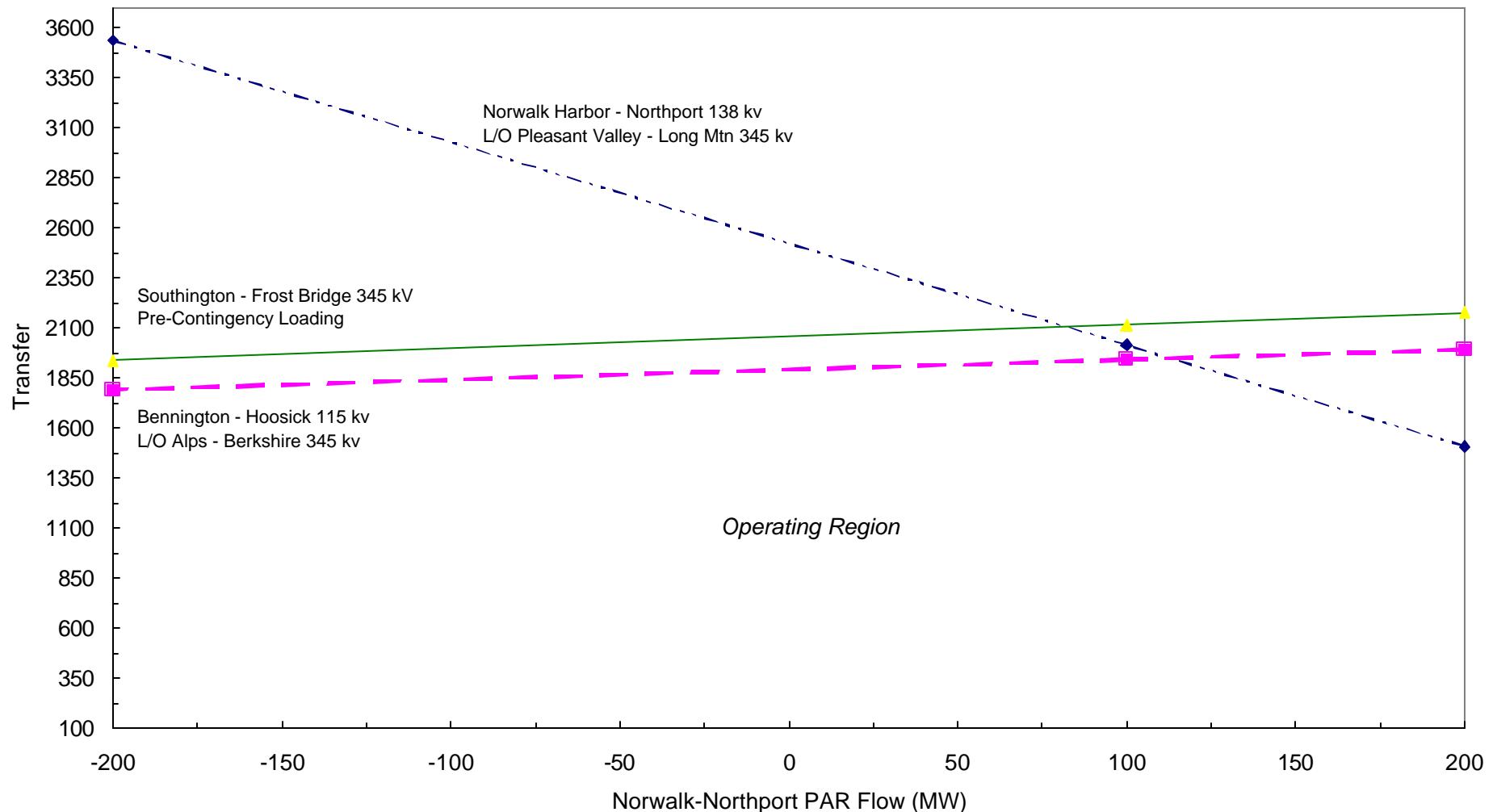
## **NE-NY vs. NORWALK-NORTHPORT PAR Flow**

**For Normal Transfer Criteria**

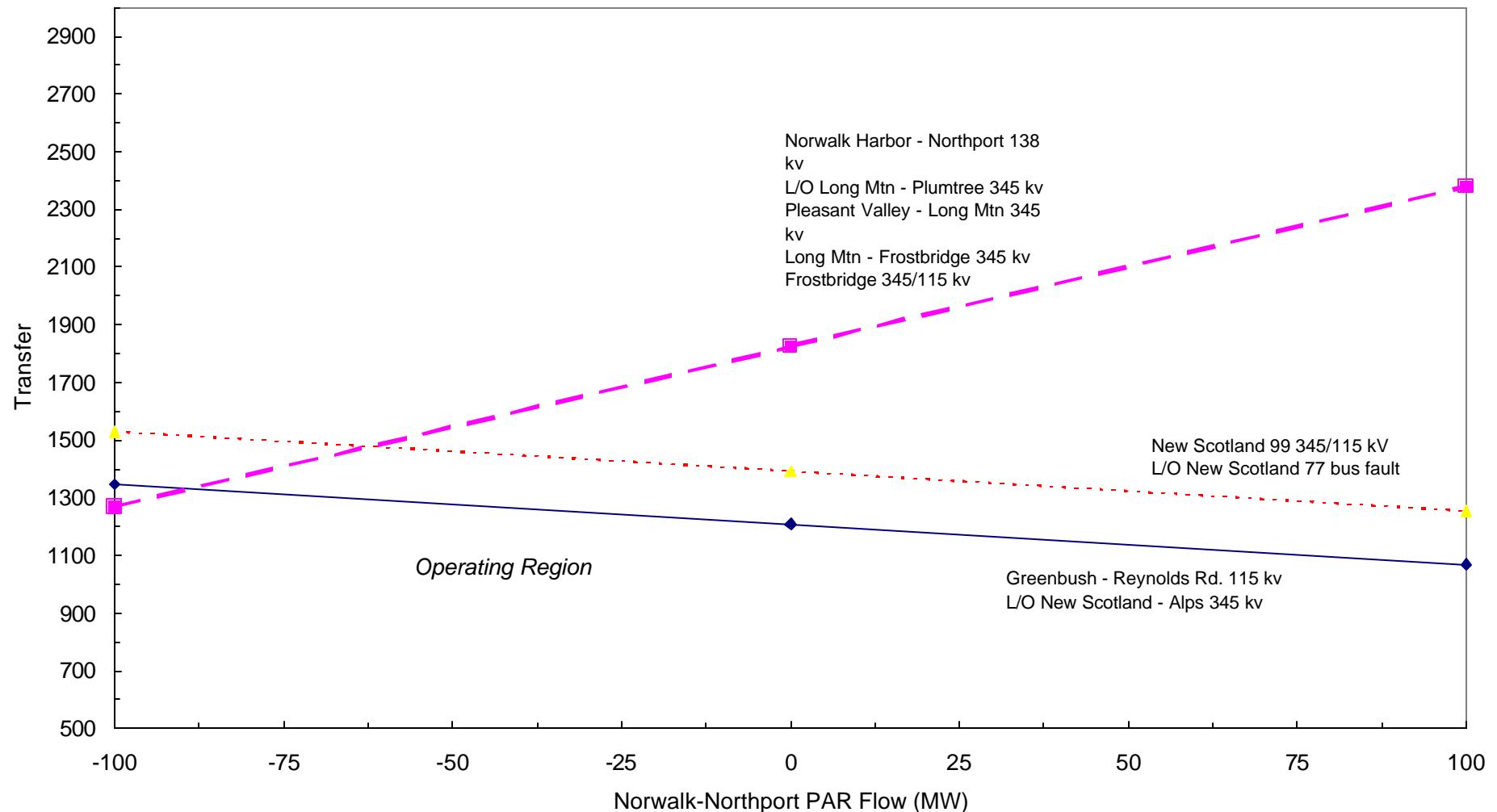
**Summer 2001**



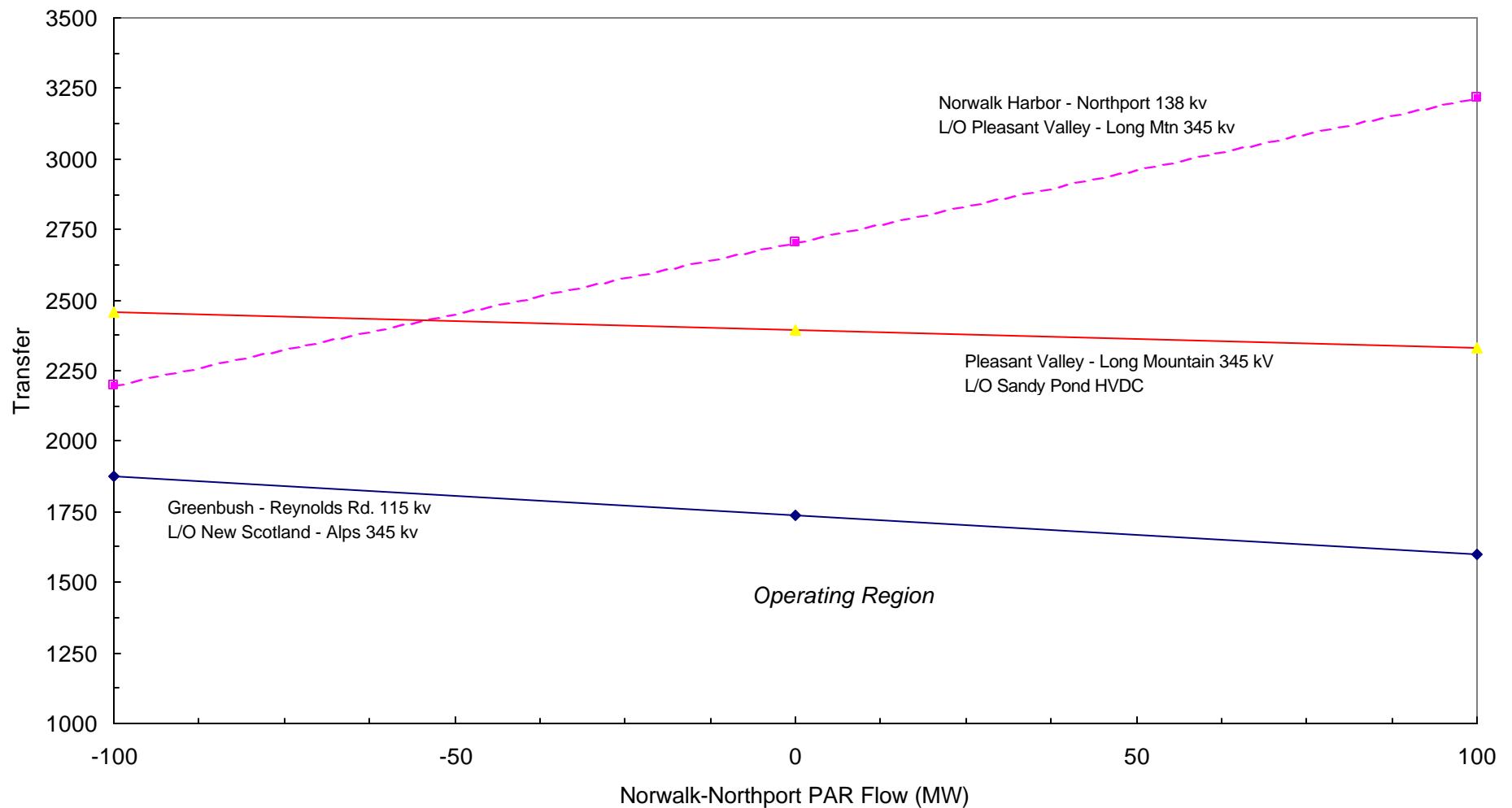
**NE-NY vs. NORWALK-NORTHPORT PAR Flow**  
**For Emergency Transfer Criteria**  
**Summer 2001**



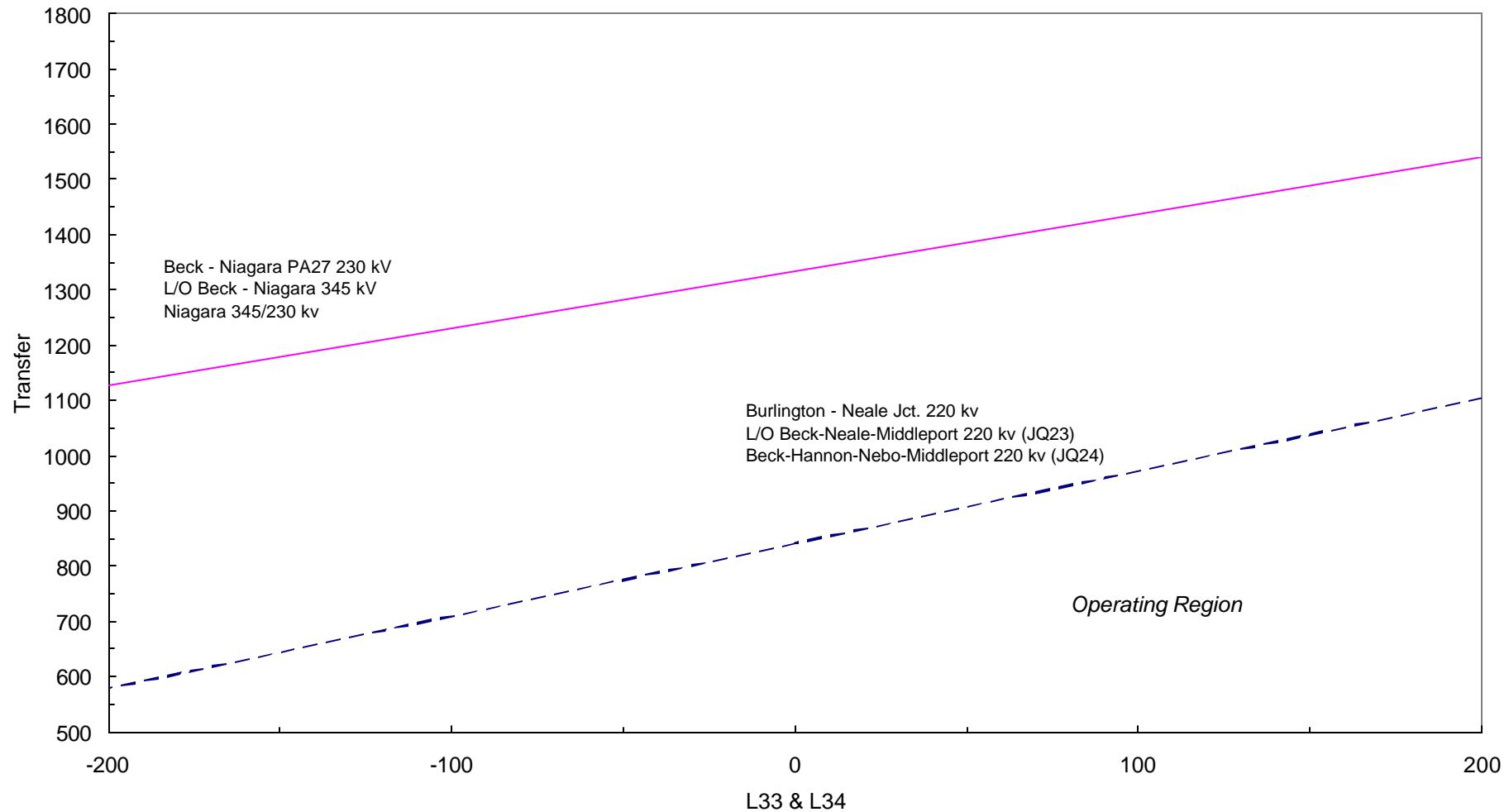
**NY-NE vs. NORWALK-NORTHPORT PAR Flow**  
**For Normal Transfer Criteria**  
**Summer 2001**



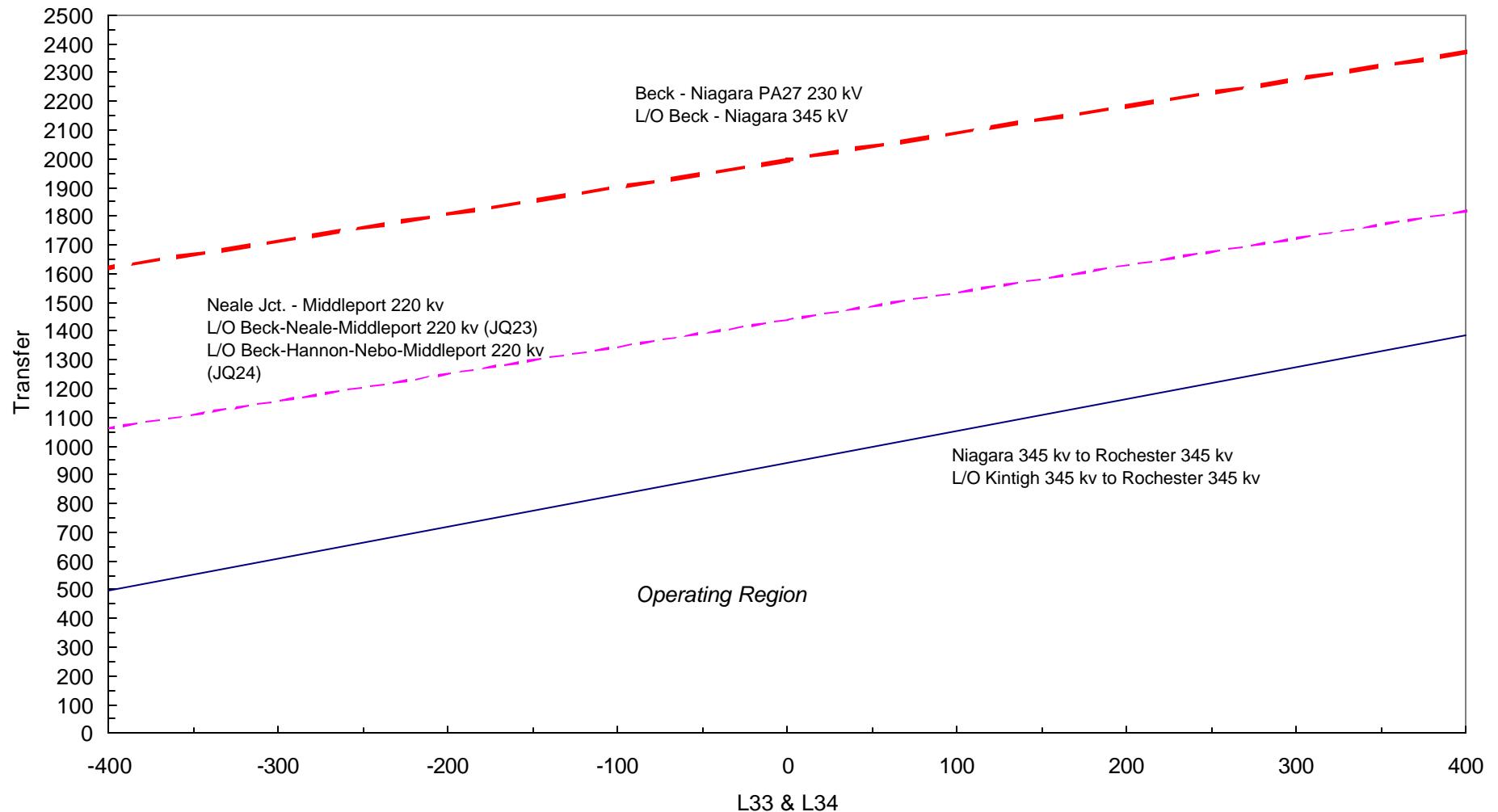
**NY-NE vs. NORWALK-NORTHPORT PAR Flow**  
**For Emergency Transfer Criteria**  
**Summer 2001**



**NY- IMO (Ontario) Transfer vs. L33 & L34**  
**For Normal Transfer Criteria**  
**Summer 2001**



**IMO (Ontario)-NY Transfer vs. L33 & L34**  
**For Normal Transfer Criteria**  
**Summer 2001**



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## **APPENDIX H**

### **COMPARISON OF TRANSFER LIMITS SUMMER 2001 vs. SUMMER 2000**



# SUMMER 2001

## Comparison of Summer 2001 to Summer 2000 Thermal Limits

		SUMMER 2001		SUMMER 2000		Delta
Interface	Rating	Limit (MW)	Contingency	Limit (MW)	Contingency	
<b>Dysinger East</b>	Normal	2950	1	3200	2	-250
	Emergency	3250	3	3200	4	50
<b>West Central</b>	Normal	1725	1	2075	2	-350
	Emergency	2025	3	2500	5	-475
<b>Upny - ConEd</b>	Normal	4225	6	4150	6	75
	Emergency	4875	7	4800	7	75
<b>Sprn/Dun-South</b>	Normal	3950	8	4175	9	-225
	Emergency	3950	8	4175	9	-225
<b>Con Ed - LIPA</b>	Normal	975	10	975	10	0
	Emergency	1525	11	1500	11	25
<b>Central East</b>						
HQ > NY 1200 MW	Normal	3250	12	3125	13	125
	Emergency	3575	14	3450	14	125
HQ > NY 800 MW	Normal	3200	12	3050	13	150
	Emergency	3575	14	3375	14	200
<b>Total East</b>						
HQ > NY 1200 MW	Normal	5800	12	5400	13	400
	Emergency	6500	14	6025	14	475
HQ > NY 800 MW	Normal	5775	12	5225	13	550
	Emergency	6525	14	5850	14	675
<b>Moses - South</b>						
HQ > NY 1200 MW	Normal	1975	15	2100	16	-125
	Emergency	2575	17	3025	18	-450
HQ > NY 800 MW	Normal	1825	15	1900	19	-75
	Emergency	2275	17	2875	18	-600

**NYISO SUMMER 2001 CROSS-STATE THERMAL LIMIT CONTINGENCY LIST**

<b>Limiting Element</b>					<b>Contingency</b>
(1)	Niagara - Rochester (NR-2) 345kV	@LTE	1502 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(2)	Rochester – Pannell Rd. (RP-2) 345 kV	@LTE	1501 MW	L/O	(S. BKR @ Rochester 345kV) Rochester-Pannell Rd. 345kV Rochester 345/115kV
(3)	Stolle Rd. – Meyer 230 kV	@NOR	430 MW	L/O	Pre-contingency Loading
(4)	Niagara - Rochester (NR-2) 345kV	@STE	1685 MW	L/O	AES/Somerset - Rochester (SR-1) 345kV
(5)	Rochester - Pannell Rd (RP-2) 345 kV	@STE	1685 MW	L/O	Rochester - Pannell Rd (RP-1) 345 kV
(6)	Leeds - Pleasant Valley (91) 345kV	@LTE	1538 MW	L/O	Leeds - Pleasant Valley (92) 345kV
(7)	Leeds - Pleasant Valley (91) 345kV	@STE	1724 MW	L/O	Leeds - Pleasant Valley (92) 345kV
(8)	SprainBrook – W. 49th St. 345 kV	@Nor	736 MW		Pre-contingency Loading
(9)	Dunwoodie - Rainey (72) 345 kV	@NOR	715 MW		Pre-contingency Loading
(10)	Dunwoodie – Shore Rd. (Y50) 345 kV	@ LTE	833 MW	L/O	SprainBrook – E.G.C (Y49) 345 kV
(11)	Dunwoodie – Shore Rd. (Y50) 345 kV	@NOR	599 MW		Pre-Contingency Loading
(12)	Fraser – Coopers Corners 345 kV	@LTE	1404 MW	L/O	Marcy – Coopers Corners 345 kV Porter – Rotterdam 230 kV
(13)	New Scotland 77 – Leeds 345 kV	@LTE	1538 MW	L/O	New Scotland 99 – Leeds 345 kV
(14)	New Scotland 77 – Leeds 345 kV	@STE	1724 MW	L/O	New Scotland 99 – Leeds 345 kV
(15)	Adirondack B2 -Porter 230kV	@LTE	353 MW	L/O	(breaker failure @ Porter 230kV) Edic (T2) – Porter 345/230 kV Adirondack B1 – Porter 230 kV Edic (T4) – Porter 345/115 kV
(16)	Adirondack -Porter 230kV	@LTE	353 MW	L/O	Moses - Massena MMS-1 230kV Moses - Massena MMS-2 230kV

(17)	Moses-Adirondack 230 kV	@STE	440 MW	L/O	Massena – Marcy (MSU-1) 765kV Chateauguay – Massena (MSC-7040) 765kV and Trans Energie delivery
(18)	Adirondack -Porter 230kV	@STE	449 MW	L/O	Adirondack – Porter 230 kV
(19)	Moses - Adirondack 230kV	@LTE	359 MW	L/O	Moses - Massena MMS-1 230kV Moses - Massena MMS-2 230kV

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## APPENDIX I

### SUMMARY OF EXISTING STABILITY LIMITS



**APPENDIX I**  
**NYISO STABILITY LIMITS**

	<b>LIMIT</b>	<b>REPORT</b>	<b>DATE</b>
<b>TOTAL-EAST</b>			
SEASONAL LIMIT	6500	TE-2	1995
5018 BRANCHBURG-RAMAPO 500 KV O/S	6400	TE-3	3/95
5018 BRANCHBURG-RAMAPO 500 KV O/S WITH ANY SVC O/S			
<b>UPNY-CONED</b>			
SEASONAL LIMIT	5100	TE-1	1988
Y88 LADENTOWN-BUCHANAN 345 KV O/S	4150	UC-2	1/93
Y94 RAMAPO-BUCHANAN N. 345 KV O/S	4150	UC-2	1/93
RFK-305 ROSETON-E. FISHKILL 345 KV O/S	4100	UC-2	1/93
5018 BRANCHBURG-RAMAPO 500 KV O/S	4000	UC-1	1/93
<b>CENTRAL-EAST</b>			
SEASONAL LIMIT WITH 3 OSWEGO & 5 SITHE UNITS, SVCs and STATCOM in service	3100	CE-14	4/2001
4 LAFAYETTE-OAKDALE 345 KV O/S	2900	CE-8	6/95
32 OAKDALE-FRASER 345 KV O/S	3050	CE-8	6/95
<i>Oswego Complex, Sithe and Marcy STATCOM, Leeds and Fraser SVC Limits have been revised as a result of the addition of the Marcy STATCOM Please refer to the NYISO Report: “Marcy FACTS Project – Phase I Voltage and Stability Limits April 11, 2001”</i>			
		CE-14	4/2001

<i>Both Chateauguay HVdc poles O/S, or 1 Chateauguay HVdc pole I/S &lt;100 MW, or both Chateauguay HVdc poles &lt;150 MW (net), then:</i> Limit Oswego Complex to 3200 MW for 4 Units I/S & Sithe O/S Limit Oswego Complex to 3500 MW for 5 Units I/S & Sithe O/S or 4600 for 5-Units I/S & Sithe I/S		CE-3	9/20/93
NEW SCOTLAND 77 OR 99 BUS O/S	2050	CE-1	5/10/89
14 EDIC-NEW SCOTLAND 345 KV O/S	2050	CE-1	5/10/89
UNS-18 MARCY-NEW SCOTLAND 345 KV O/S	2050	CE-1	5/10/89
MSU-1 MASSENA-MARCY 765 KV O/S	2000	CE-1	7/12/90
<b>MOSES-SOUTH</b>			
SEASONAL LIMIT WITH 2 HVDC POLES I/S (MAX CHAT-MASSENA = 2370)	2900	MS-6	5/6/93
R8105 ALCOA BUS TIE 115 KV O/S	2600	MS-1	1/23/91
3 CHAT BANKS 765/120 KV I/S, (MAX CHAT-MASSENA = 1800)	2500		
ONE MOSES-ADIRONDACK-PORTER 230 KV CKT O/S	2450	MS-2	1/9/88
4 CHAT 765/120 kV BANKS I/S - SPLIT BUS & 1 HVDC POLE I/S (MAX CHAT - MASSENA = 1870 MW)	2600	MS-7	3/15/94
2 CHAT 765/120 KV BANKS I/S & 1 HVDC POLE I/S (MAX CHAT-MASSENA = 1650 MW)	2350	MS-5	1/14/94
3 CHAT 765/120 KV BANKS I/S & 1 HVDC POLE I/S (MAX CHAT-MASSENA = 1400)	2150	MS-5	1/14/94
2 HVDC POLES O/S (MAX CHAT-MASSENA = 1170)	2000	MS-4	1990
MSU-1 I/S WITH NO DIRECT TRANSFER TRIP FOR GEN REJECTION AT QUEBEC (MAX CHAT-MASSENA = 650)	1100	MS-2	11/29/84
MSU-1 MASSENA-MARCY 765KV O/S (MAX CHAT-MASSENA= 475)	675		2/9/84
MSU-1 MASSENA-MARCY 765 KV AND ONE MOSES-ADIRONDACK-PORTER 230 KV O/S	500		

<b>MOSES-NORTH</b>			
SEASONAL LIMIT	1600	MN-1	12/1/89
ONE OR TWO MOSES-ADIRONDACK-PORTER 230 KV CKTS O/S	1600	MN-2	2/10/90
MSU-1 MASSENA-MARCY 765 KV O/S	1100	MN-2	
<b>WEST-CENTRAL</b>			
SEASONAL LIMIT	2350	WC-1	9/18/89
NR-2 NIAGARA-ROCHESTER 345 KV OR SR-1 KINTIGH-ROCHESTER 345 KV O/S	2150	WC-2	10/14/91
<b>DYSINGER-EAST</b>			
SEASONAL LIMIT	2850	DE-1	7/27/92
67 STOLLE ROAD-MEYER 230 KV OR 68 MEYER-HILLSIDE 230 KV O/S	2650	DE-1	7/27/92
NR-2 NIAGARA - ROCHESTER 345 KV OR SR-1 KINTIGH - ROCHESTER 345 KV O/S	2500	DE-1	7/27/92
<b>NYISO-PJM</b>			
SEASONAL LIMIT	3600	NP-1	9/94
<b>PJM-NYISO</b>			
SEASONAL LIMIT	3600	NP-1	9/94
<b>NYISO-IMO</b>			
SEASONAL LIMIT	2500	NOH-1	11/10/93
PA301 OR PA302 BECK-NIAGARA 345 KV O/S	2300	NOH-1	11/10/93
PA27 OR BP76 OR L33P OR L34P O/S	2300	NOH-1	11/10/93
PA301 & PA302 BECK-NIAGARA 345 KV O/S	500	NOH-3	1995
<b>IMO-NYISO</b>			
SEASONAL LIMIT	2500	NOH-1	11/10/93
PA301 OR PA302 BECK-NIAGARA 345 KV O/S	2300	NOH-1	11/10/93
PA27 OR BP76 OR L33P OR L34P O/S	2300	NOH-1	11/10/93
PA301 & PA302 BECK-NIAGARA 345 KV O/S	800	NOH-3	1995

<b>WESTERN NY EXPORT</b>			
BOTH BECK-NIAGARA 345 KV CKTS O/S W/ NIAGARA GEN REJ I/S	1700	NOH-3	2/95
BOTH BECK-NIAGARA 345 KV CKTS O/S W/ NIAGARA GEN REJ O/S OR BOTH BECK-NIAGARA 345 KV CKTS O/S & PA27 CKT O/S OR ONE BECK-NIAGARA 345KV CKT O/S & PA27 & BP76 CKTS O/S	1100	NOH-3	2/95
<b>NYISO-ISO-NE</b>			
SEASONAL LIMIT	2200	NE-1	10/92- 1996
2 NEW SCOTLAND - ALPS 345 KV O/S	2150	NE-1	10/92
329 FROST BRIDGE - SOUTHBINGHAM 345 KV O/S	2100	NE-1	10/92
312 BERKSHIRE - NORTHFIELD 345 KV O/S	1950	NE-1	10/92
352 LONG MOUNTAIN - FROST BRIDGE 345 KV O/S	1850	NE-1	10/92
393 ALPS - BERKSHIRE 345 KV O/S	1600	NE-1	10/92
393/312 ALPS-BERKSHIRE-NORTHFIELD 345 KV O/S	1500	NE-1	10/92
398 PLEASANT VALLEY - LONG MOUNTAIN 345 KV O/S	1150	NE-1	10/92
<b>ISO-NE-NYISO</b>			
THIS LIMIT IS SET BY NE, NYISO SPD MUST CALL FOR LIMIT		NE-1	10/92

**NYISO STABILITY REPORT  
SUMMARY**

REPORT	REPORT TITLE	LAST REVISED DATE
TE-2	TOTAL EAST STABILITY ANALYSIS WITH SITHE GENERATION O/S	1/95
TE-3	NYISO TOTAL EAST ANALYSIS - A. HARGRAVE	3/95
UC-1	REVISED MAINTENANCE STABILITY TRANSFER LIMITS FOR BRANCH-RAMAPO O/S-NYPP	1/93
UC-2	RWW ANALYSIS - NYPP	1/93
CE-1	REVISED CENTRAL EAST STABILITY LIMITS BASED ON SVC RESERVE - K. TAMMAR TO C. COREY	5/10/89
CE-2	CENTRAL EAST STABILITY LIMIT W/ 765 KV SYSTEM O/S - NYPA TO K. TAMMAR	7/12/90
CE-3	CE & OSWEGO COMPLEX STABILITY LIMITS FOR THE CHATEAUGUAY HVDC O/S-NYPP/NYPA	9/20/93
CE-5	NYISO CE STABILITY LIMITS FOR LEEDS OR FRASER SVC O/S	4/12/94
CE-6	CENTRAL EAST STABILITY ANALYSIS PRE-SITHE CONFIGURATION	10/94
CE-7	CENTRAL EAST STABILITY ANALYSIS POST SITHE CONFIGURATION	2/95
CE-8	CENTRAL EAST STABILITY LIMITS FOR THREE OSWEGO UNITS I/S	6/1/95
CE-9	CENTRAL EAST STABILITY LIMITS FOR TWO OSWEGO UNITS I/S	4/17/96
CE-10	CENTRAL EAST STABILITY LIMITS FOR ONE OSWEGO UNIT I/S	4/17/96
CE-11	CENTRAL EAST STABILITY LIMITS FOR ZERO OSWEGO UNITS I/S	6/27/97
CE-12	CENTRAL EAST STABILITY LIMITS FOR 4/5 OSWEGO UNIT I/S	11/99
CE-14	Central East Voltage and Stability Analysis for Marcy FACTS Project – Phase I	04/11/2001
MS-2	RT GONZALES ANALYSIS	1/9/88
MS-3	RW WALDELE ANLAYSIS	11/29/84
MS-4	NYPA ANALYSIS W/2 HVDC POLES O/S	1990
MS-5	OPERATION OF THE MSC-7040 LINE W/1650 MW IMPORT FROM HYDRO QUEBEC & ONE HVDC CONVERTER I/S	12/20/93
MS-6	CHATEAUGUAY 2370MW IMPORT ANAYLSIS	5/6/93
MS-7	SPLIT 120 KV BUS OPERATION OF THE CHAT/BEAU COMPLEX W/ ONE HVDC CONVERTER O/S -NYPA	3/15/94
MN-1	RWW ANALYSIS 12/13/89 KT MEMO TO JEK	12/1/89
MN-2	JAM ANALYSIS #89030S MOSES-SOUTH W/MAP OS	2/10/90

WC-1	AWH ANALYSIS - NYISO	9/18/89
WC-2	WEST CENTRAL TRANSIENT STABILITY LIMITS FOR LINE OUTAGE CONDITIONS - NYISO	10/14/91
DE-1	DYSINGER EAST TRANSIENT STABILITY LIMITS FOR LINE OUTAGE CONDITIONS - NYISO	7/27/92
NOH-1	NYISO-OH DIRECT TIE STUDY OCTOBER 1993 SEE CA KING LETTER TO SOAS DATED 11/10/93	10/93
NOH-2	OH-NYISO TS STUDY GROUP ANALYSIS	1983-1984
NOH-3	NYISO STABILITY ANALYSIS WITH PA301/PA303 O/S	2/95
NE-1	1992-1996 NYISO-NEPOOL TRANSFER LIMIT STUDY	10/92
NP-1	NYISO-PJM STABILITY ANALYSIS ON THE DIRECT TIE TRANSFER CAPABILITY	9/94